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Hancock

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(45) **Date of Patent: Apr. 5, 2016**

(54) **MULTI-PURPOSE TOOL WATCH HOUSING MULTIPLE TOOL MEMBERS TO BE MOVED FROM A STORED AND EXTENDED POSITION FOR USE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(22) Filed: **Apr. 29, 2015**

(51) **Int. Cl.**

G04B 37/12	(2006.01)
B25F 1/00	(2006.01)
G04B 47/00	(2006.01)

(52) **U.S. Cl.**
CPC . ***G04B 37/12*** (2013.01); ***B25F 1/00*** (2013.01); ***G04B 47/00*** (2013.01)

(58) **Field of Classification Search**
CPC B25F 1/00
See application file for complete search history.

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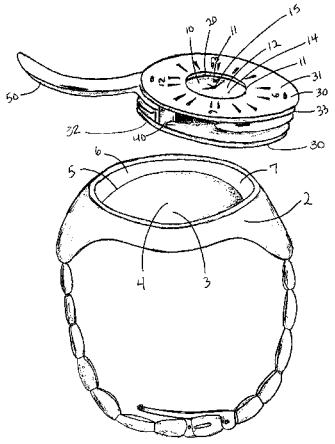
(57) **ABSTRACT**

A multi-purpose tool watch comprising, a wristband housing having a bottom surface, an outer edge and a sidewall that extends upwards from said bottom surface outer edge, said sidewall having an inner surface, a watch body having a boundary edge and top and bottom surfaces, a watch face, and the bottom surface, a tubular member, a flange. The tubular member of the tool watch is mounted to the watch body boundary edge, wherein the flange interacts with the wristband housing to lock and unlock the tubular member to the housing. Tool members have a configuration to be moved from a stored position to an extended position for use, and wherein the tool members in a stored position are located between said tubular member outer surface and said sidewall of the wristband housing when said watch body bottom surface is adjacent said wristband housing bottom surface.

20 Claims, 33 Drawing Sheets



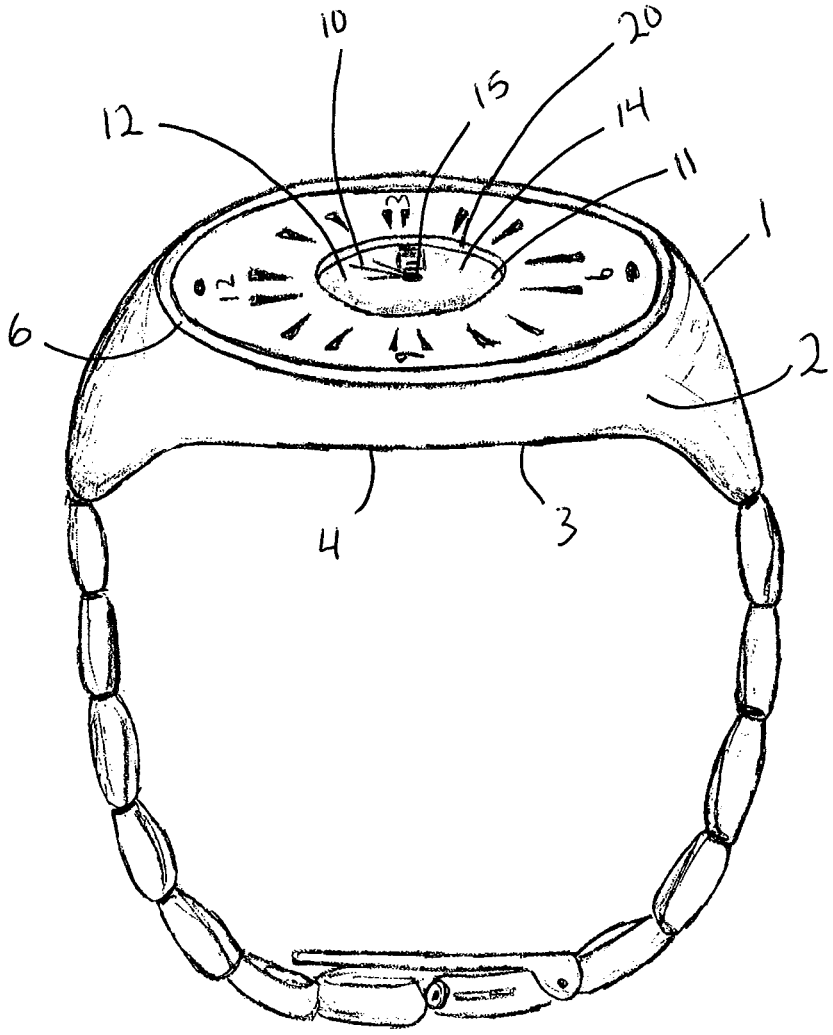


FIG. 1

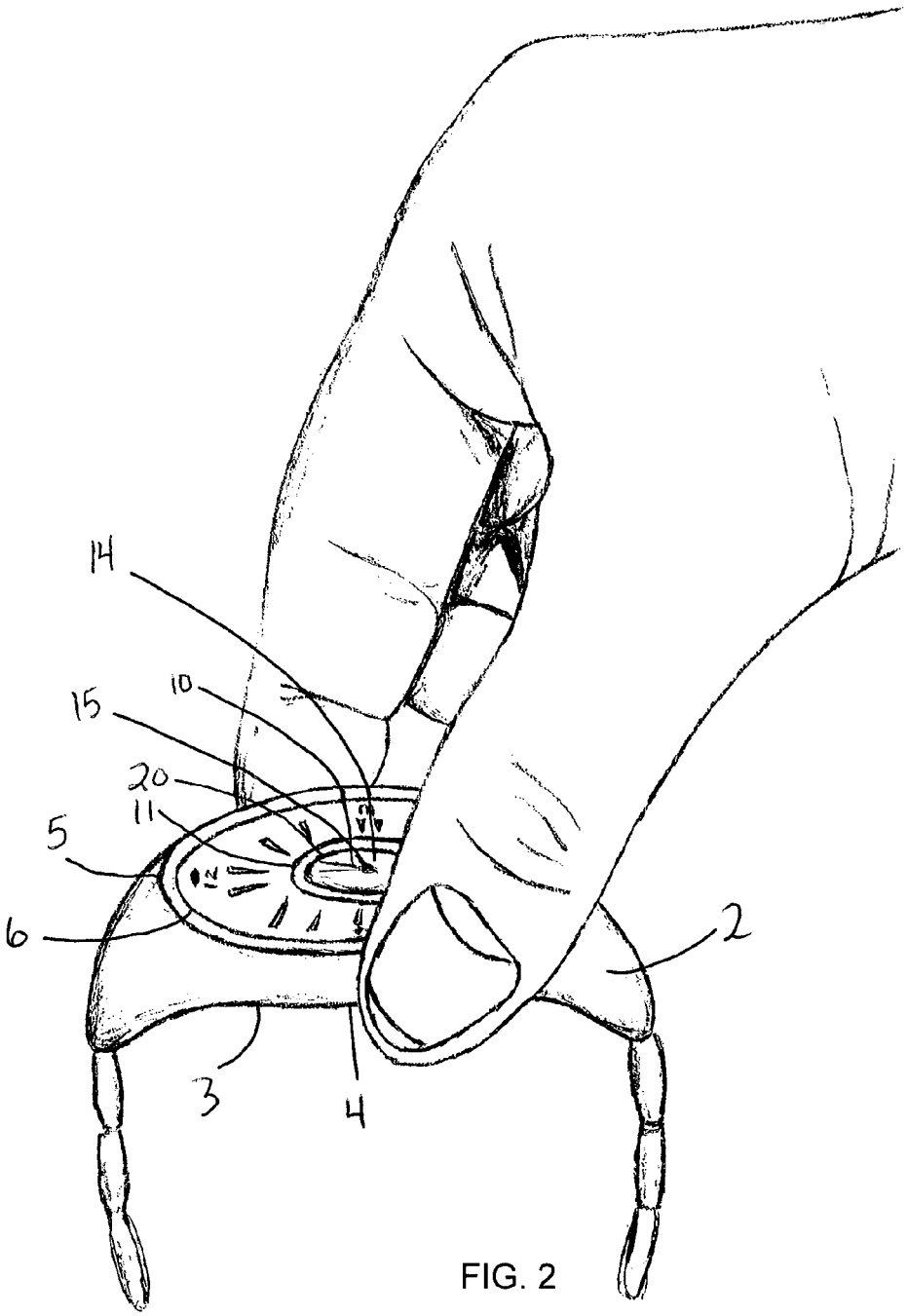


FIG. 2

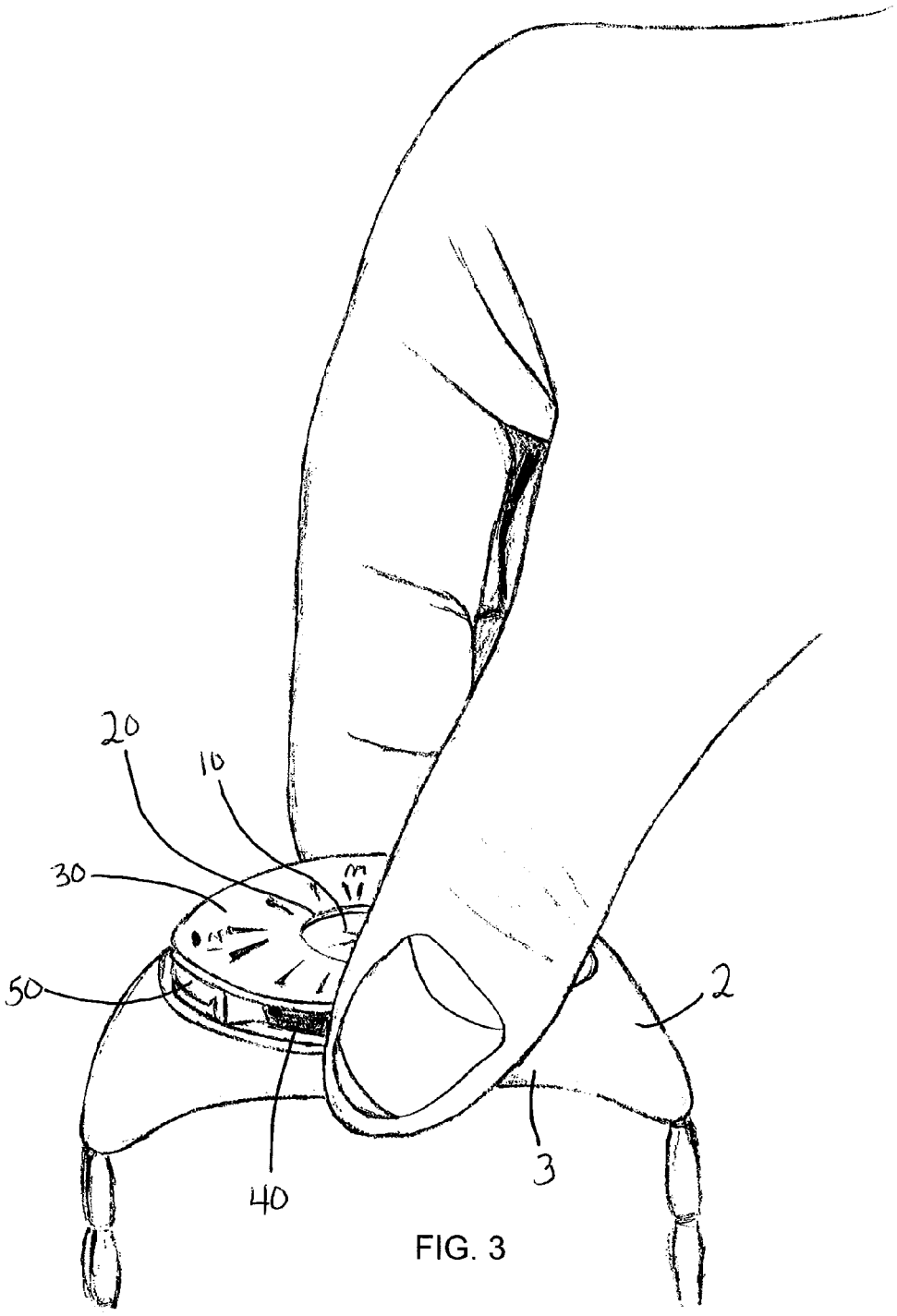


FIG. 3

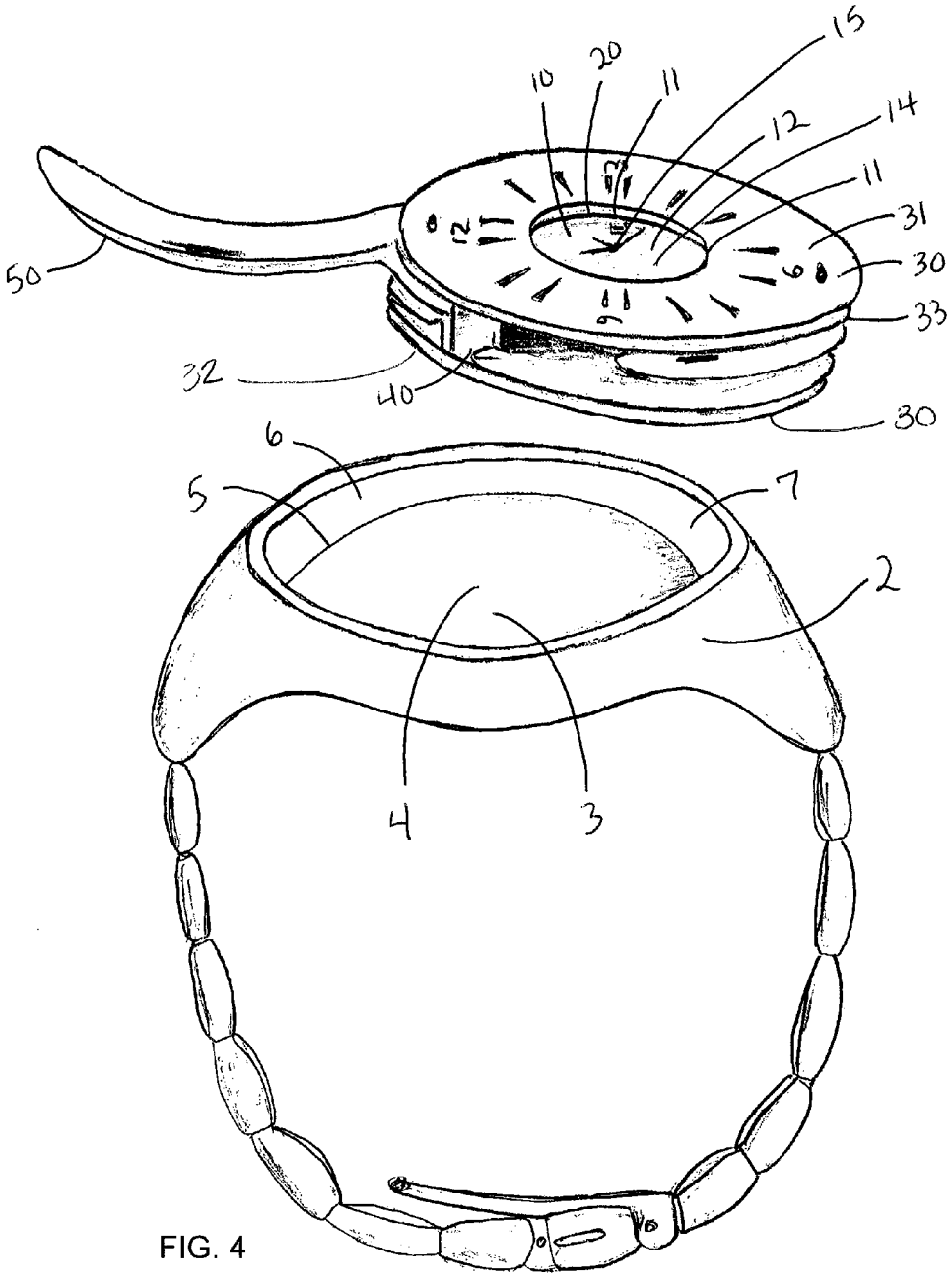


FIG. 4

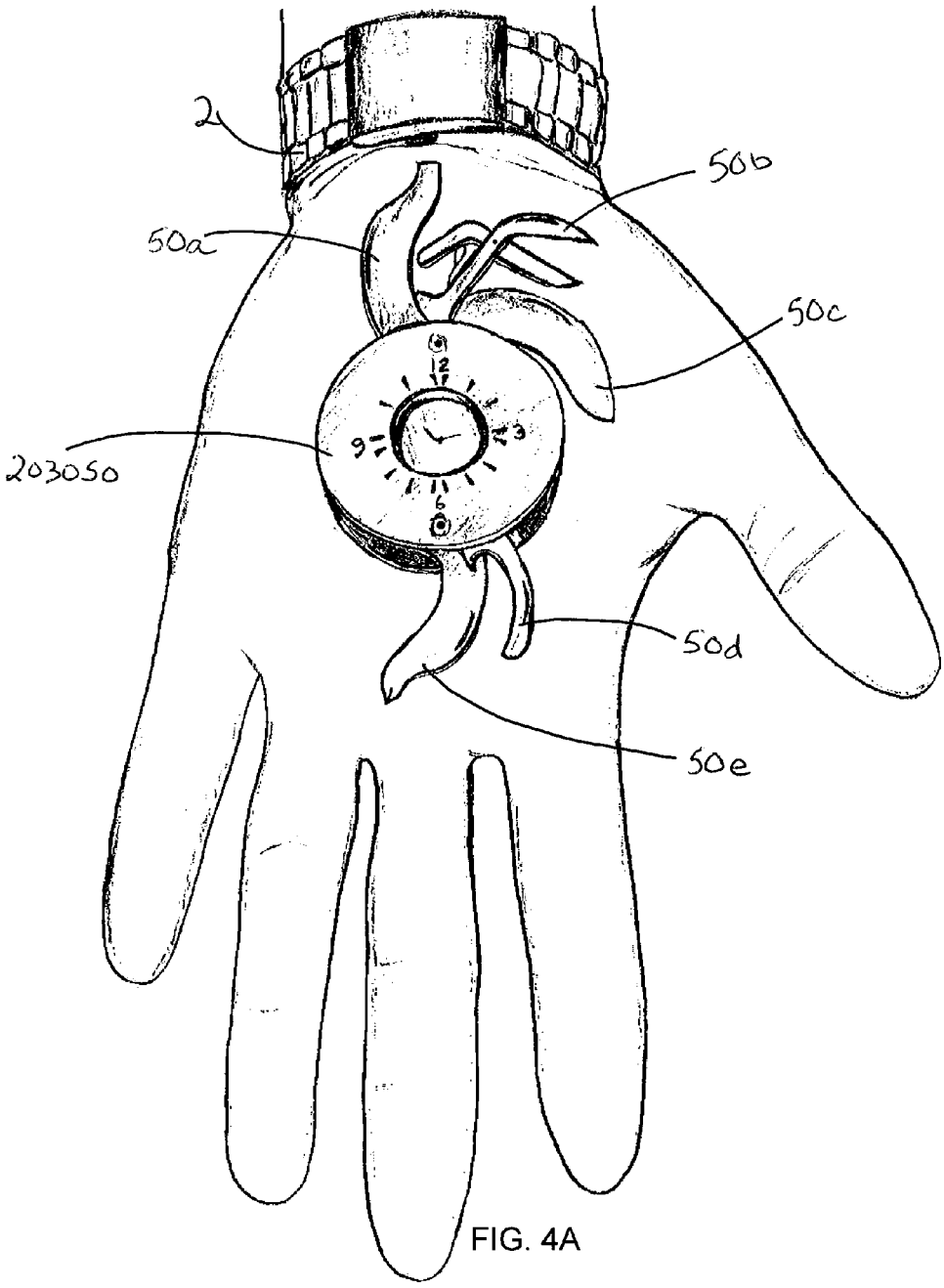


FIG. 4A

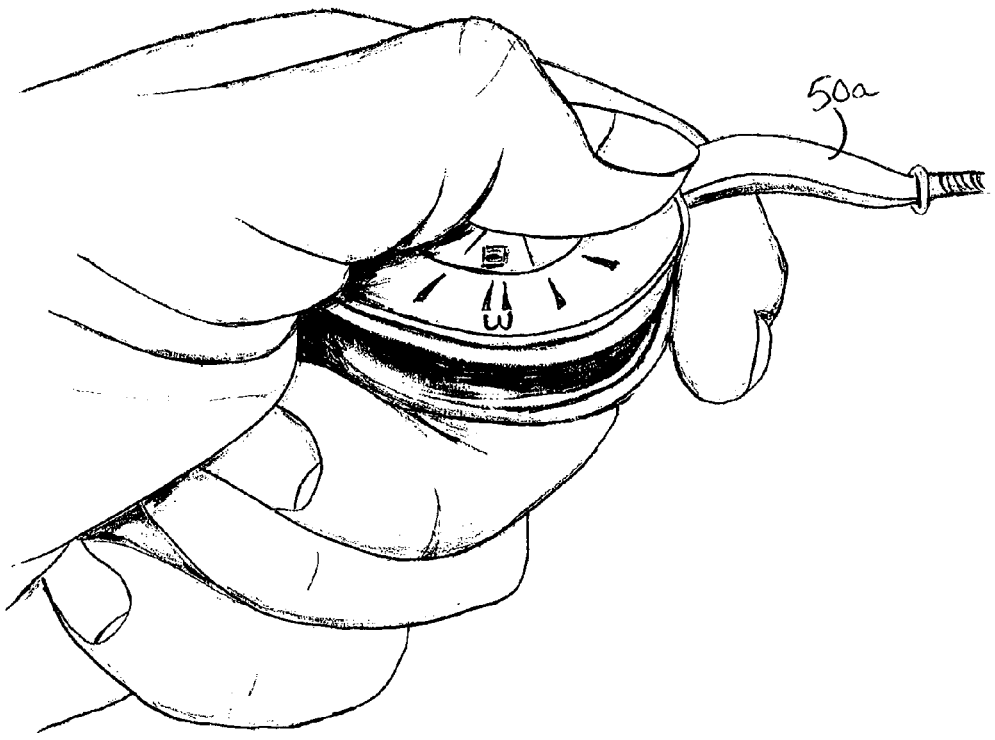


FIG. 5

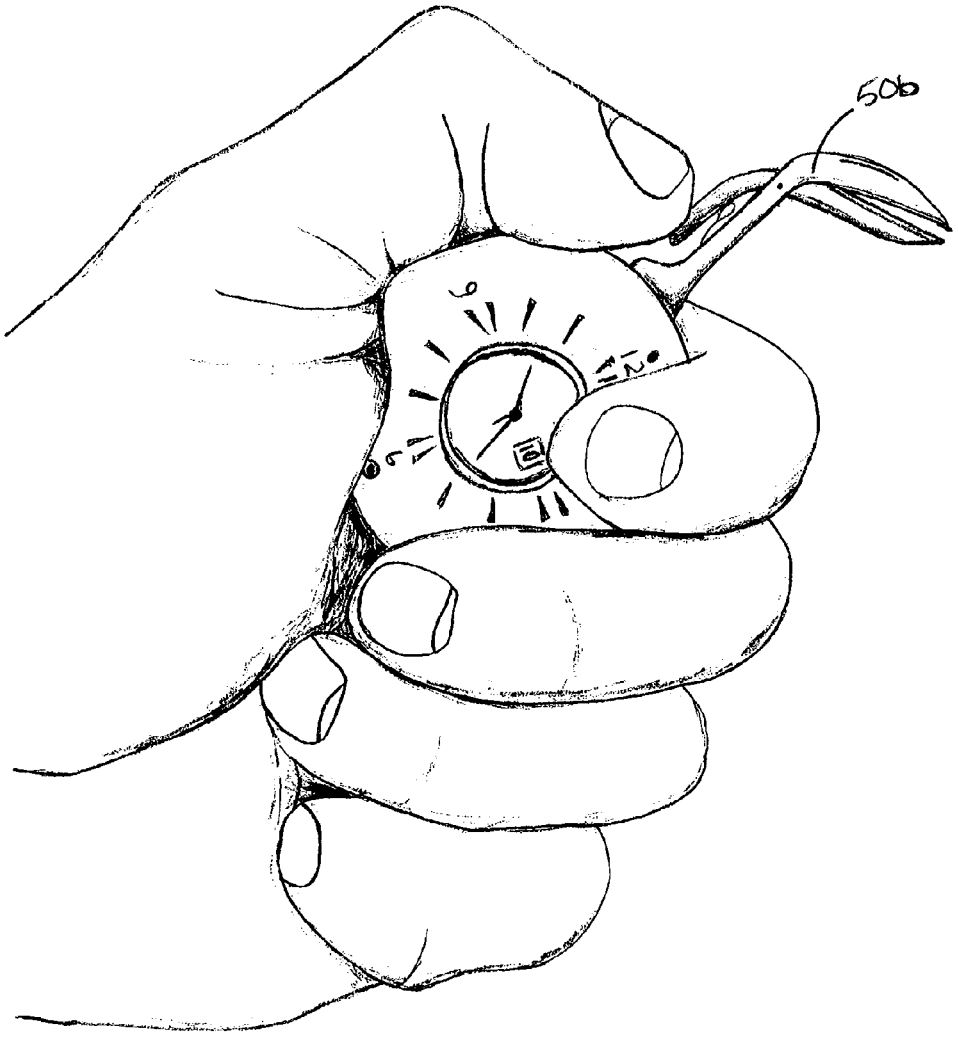


FIG. 6

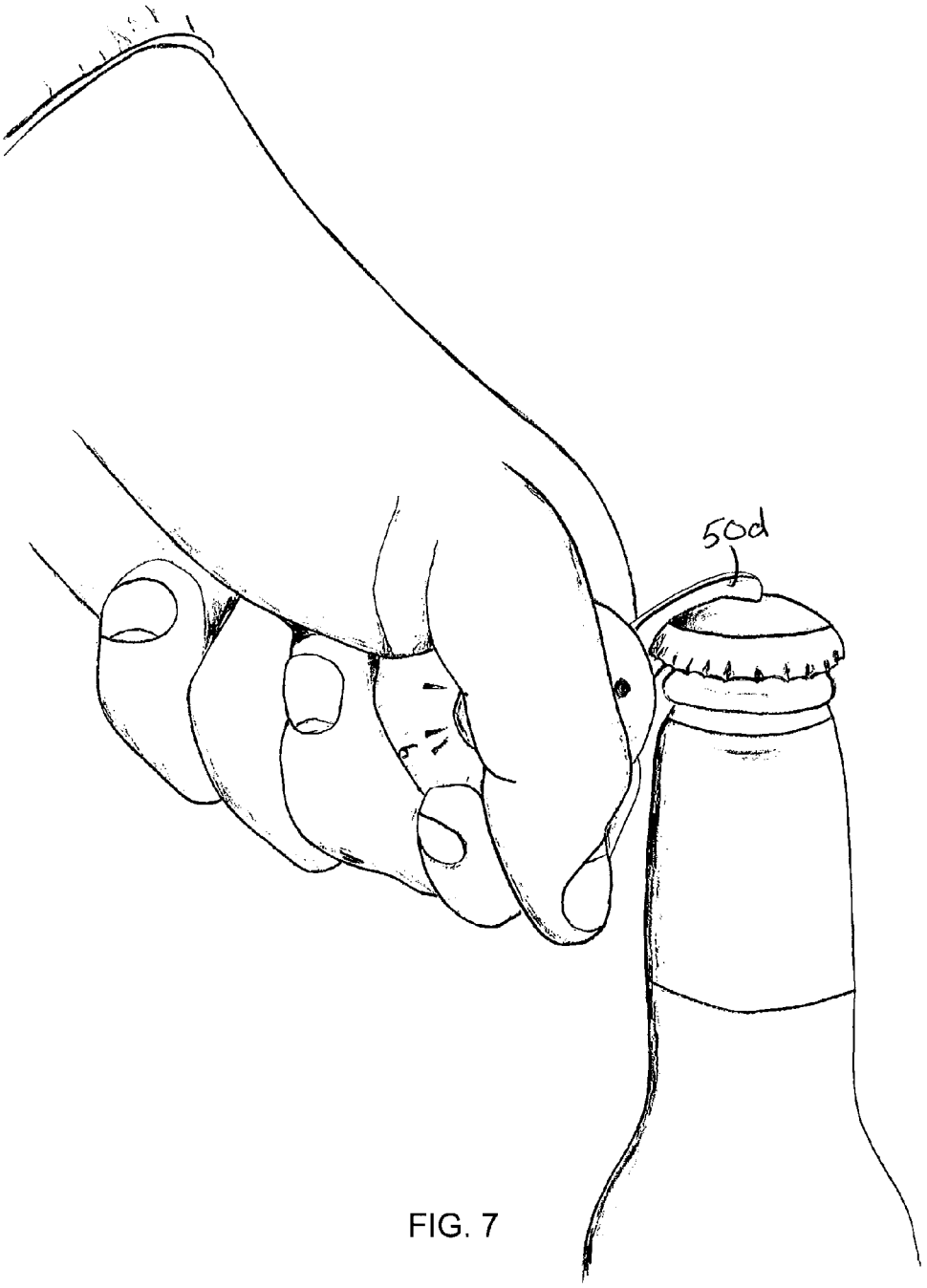


FIG. 7

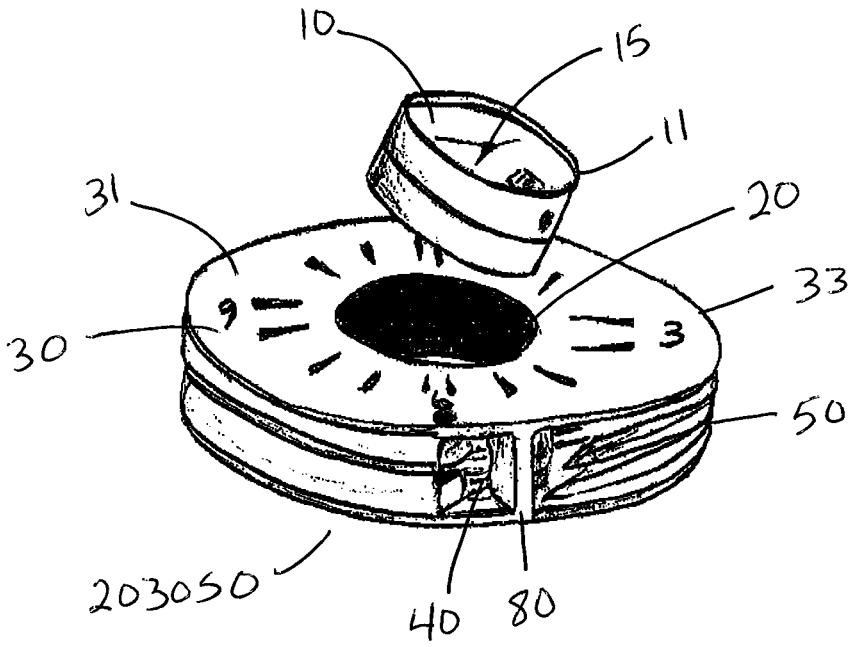


FIG. 8

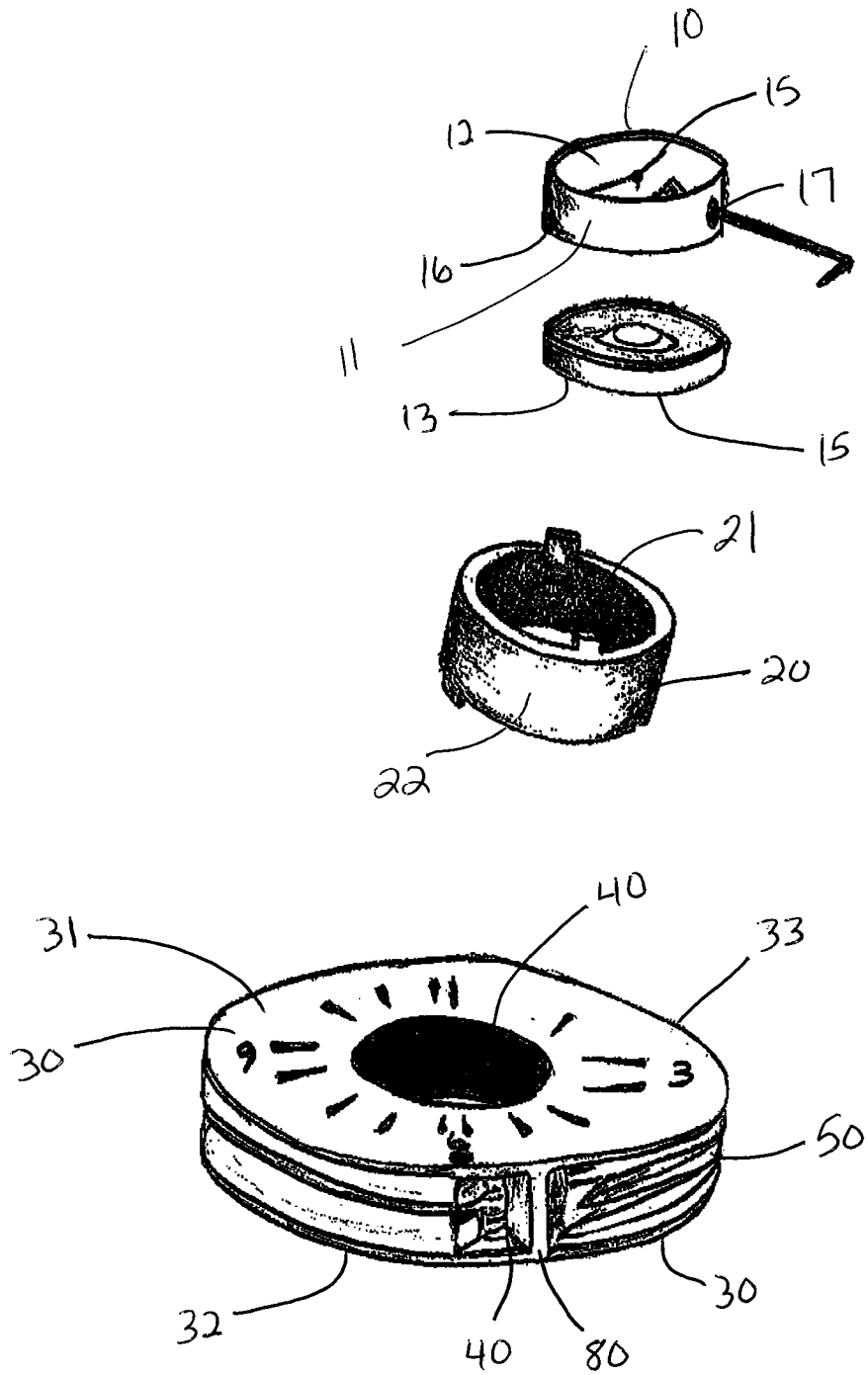


FIG. 8A

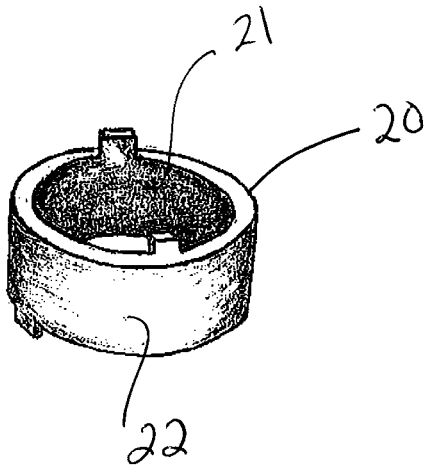


FIG. 8B

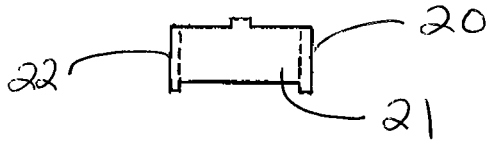


FIG. 8C

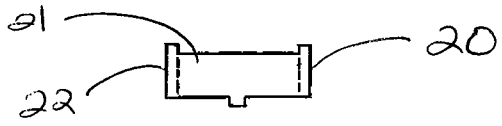


FIG. 8D

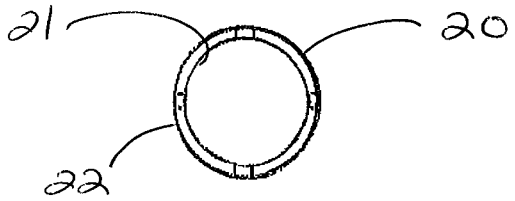
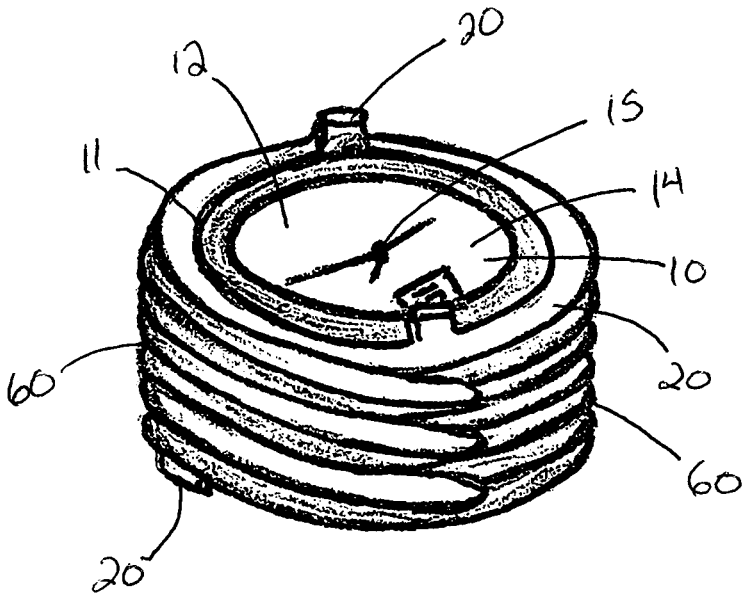


FIG. 8E



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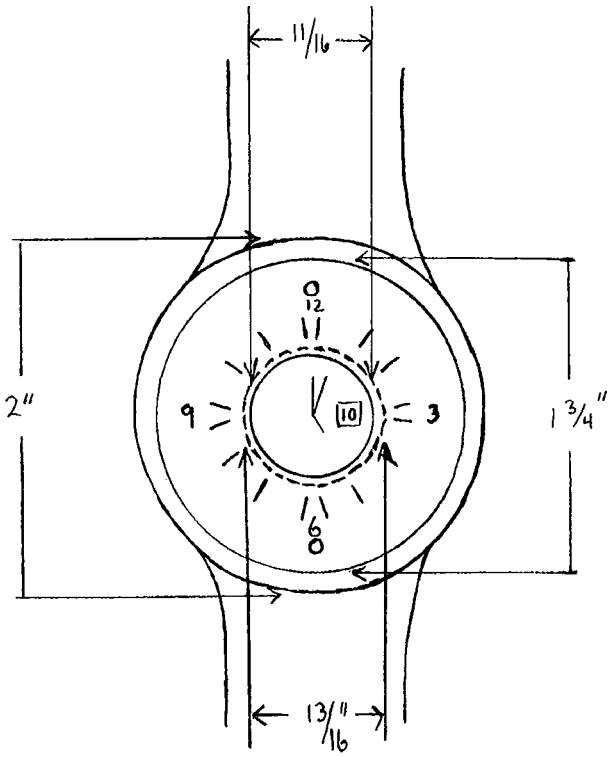

FIG. 9A

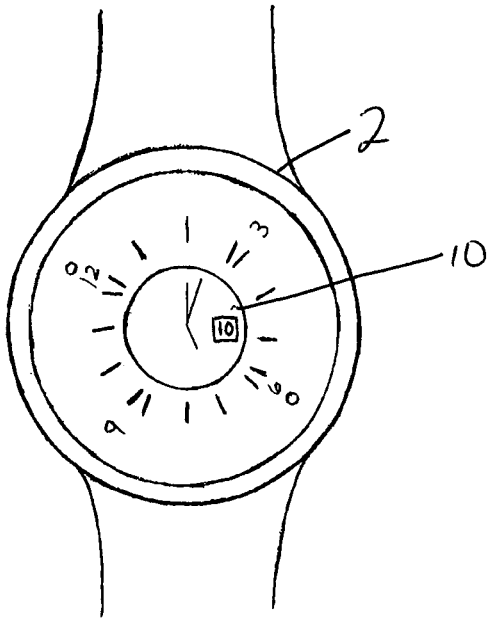

FIG. 9B

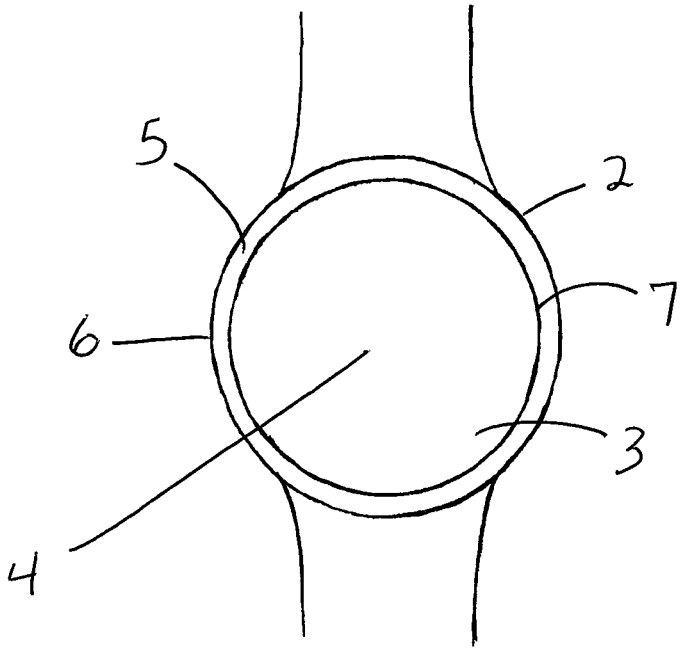

FIG. 10

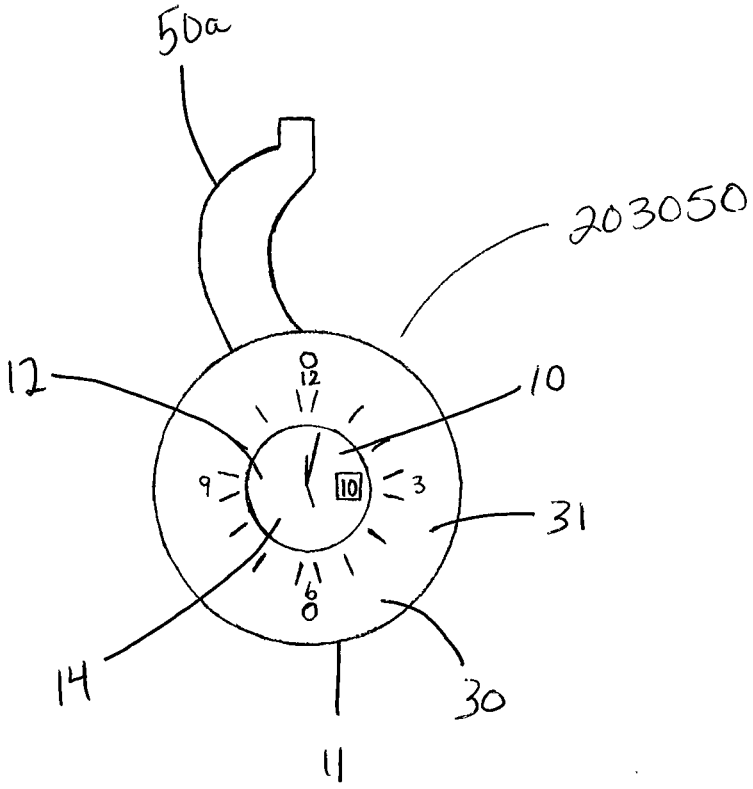

FIG. 11

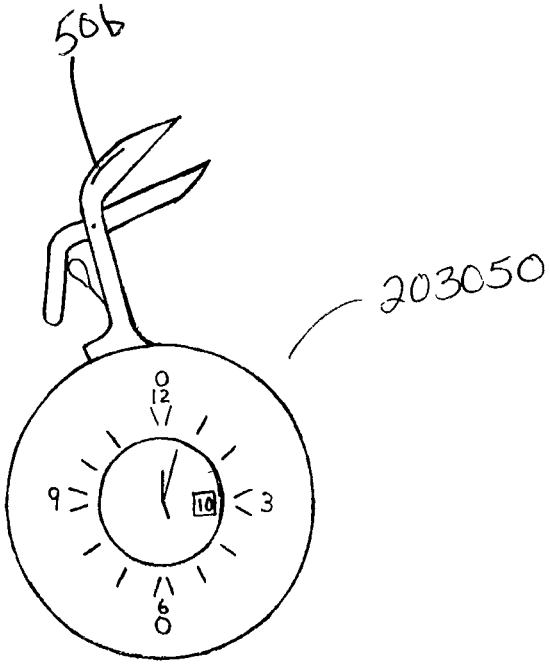

FIG. 12

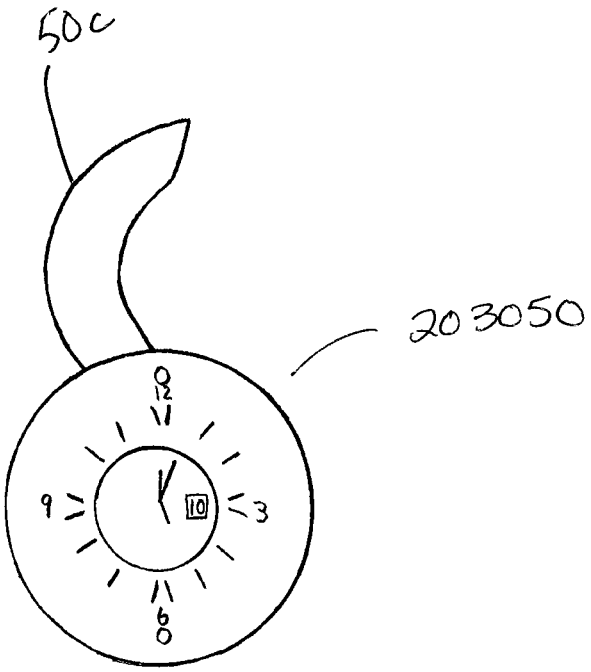

FIG. 13

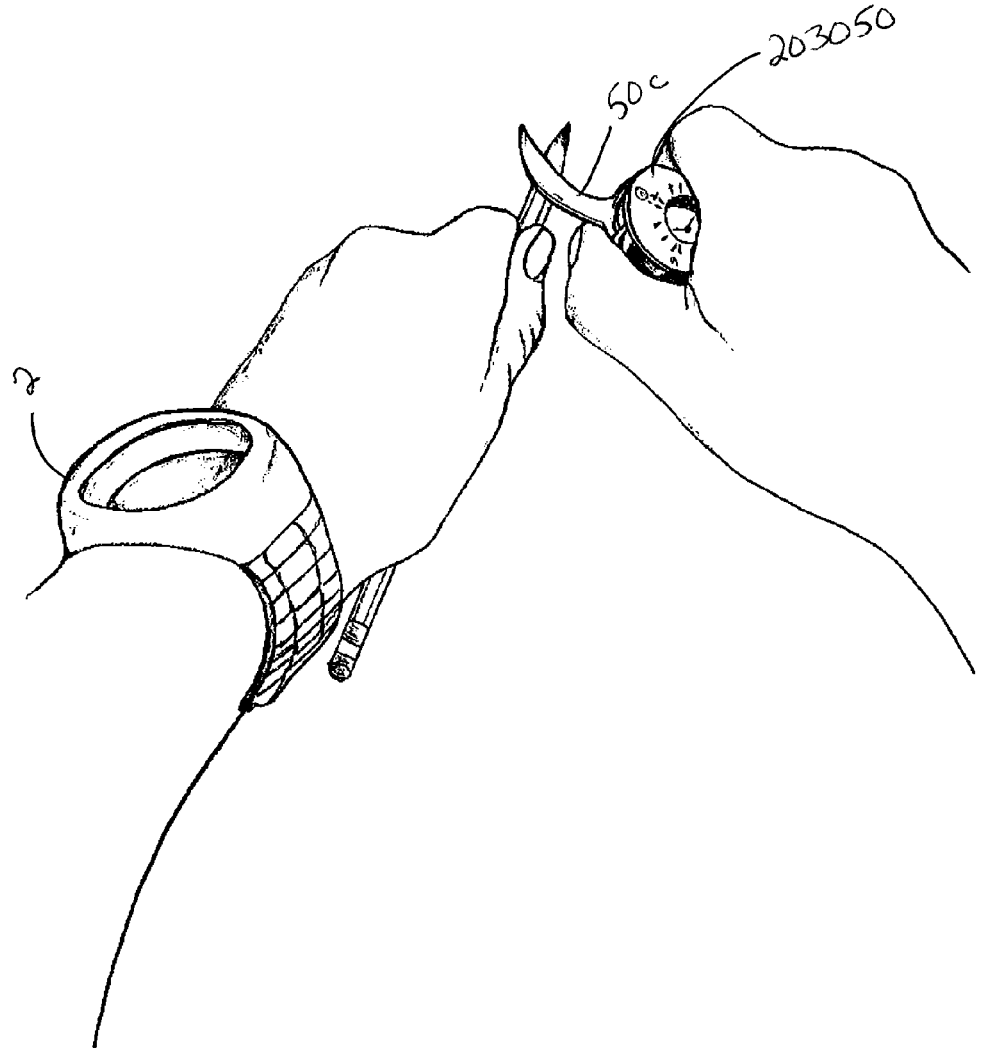

FIG. 13A

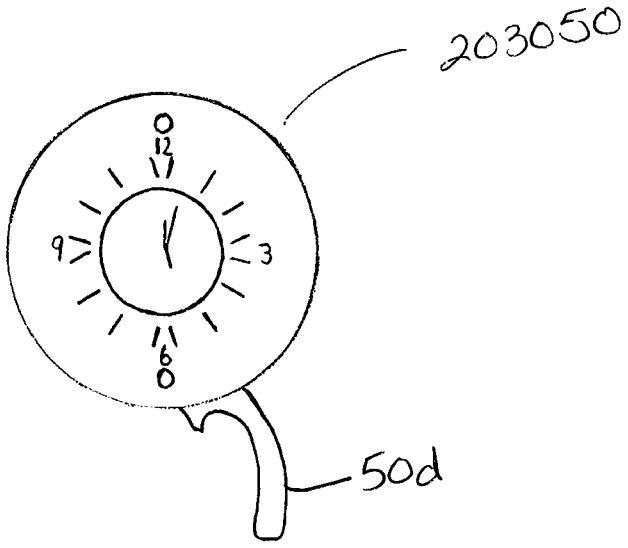

FIG. 14

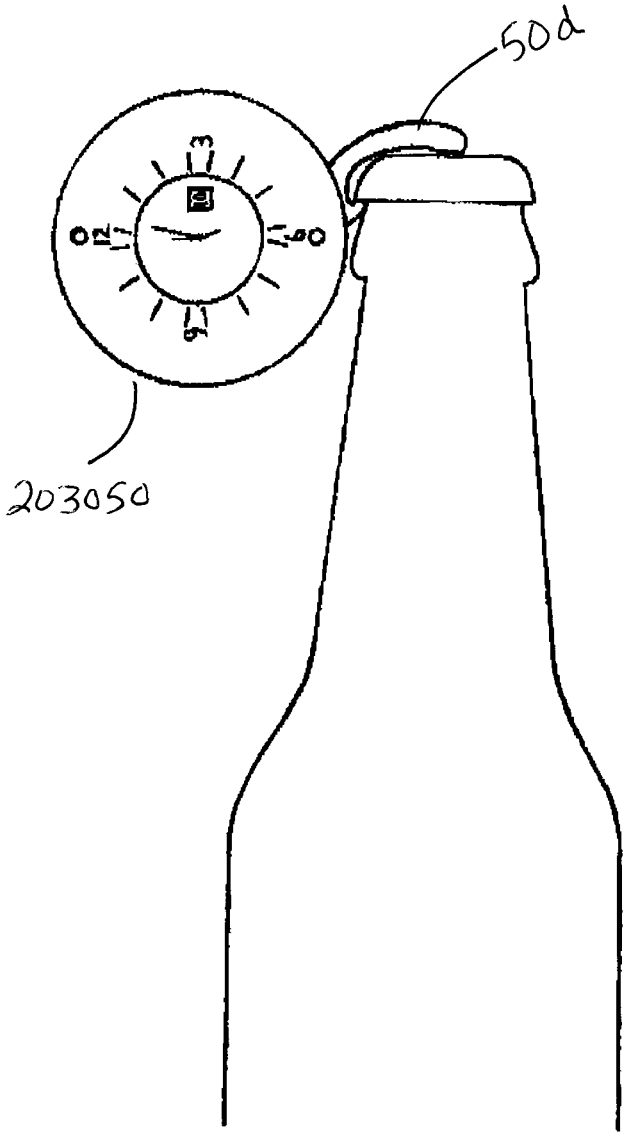

FIG. 14A

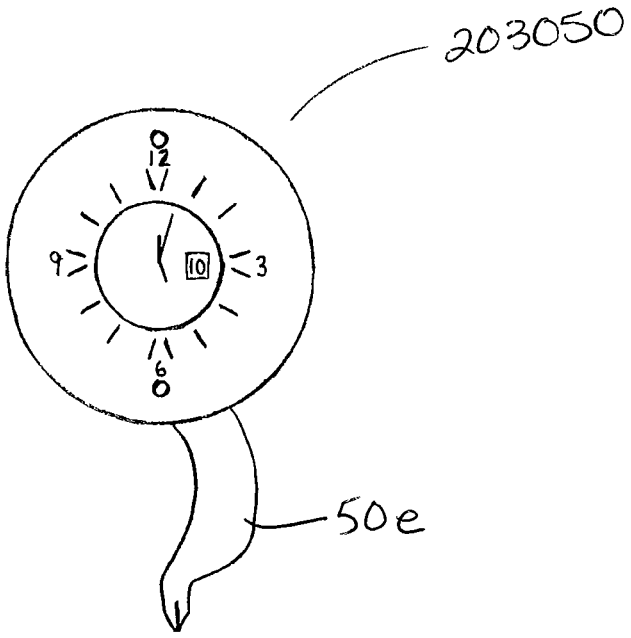

FIG. 15

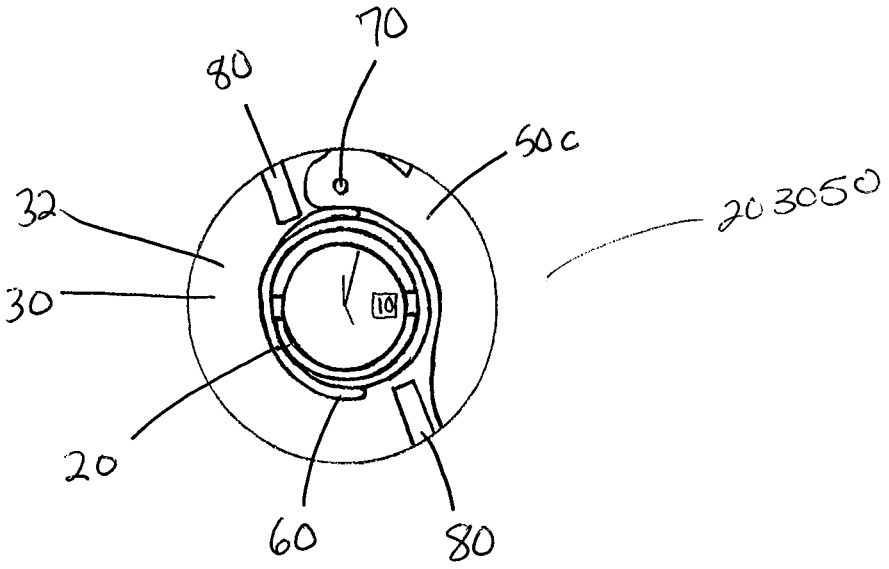

FIG. 16

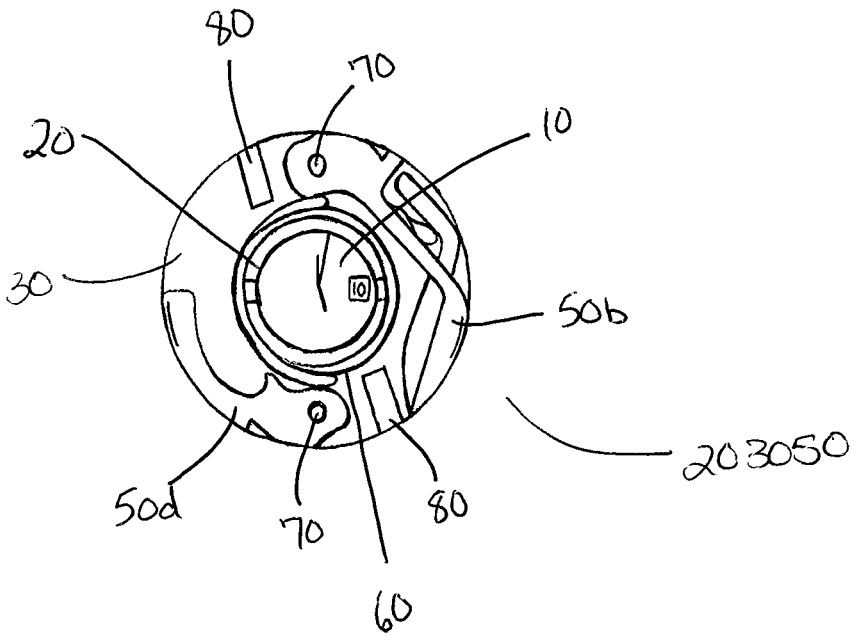

FIG. 17

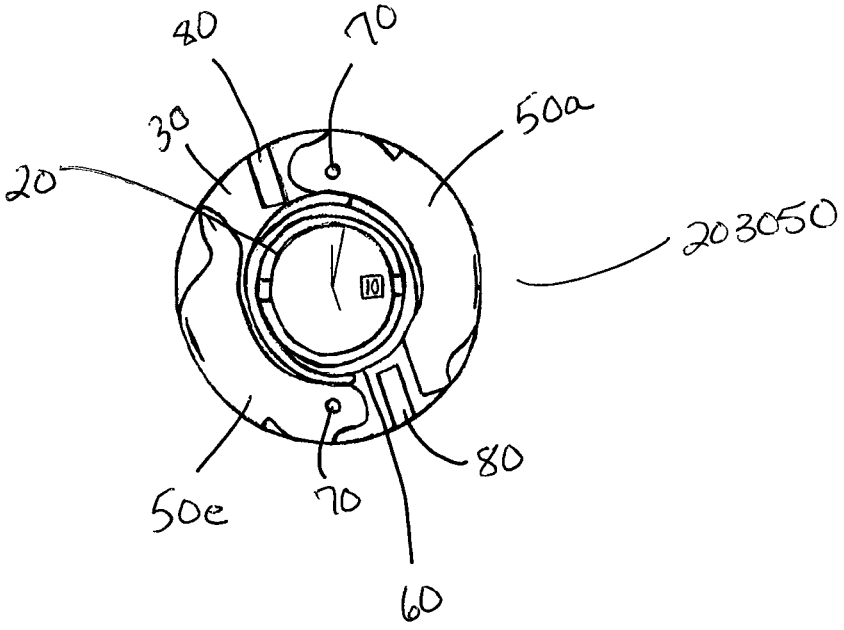

FIG. 18

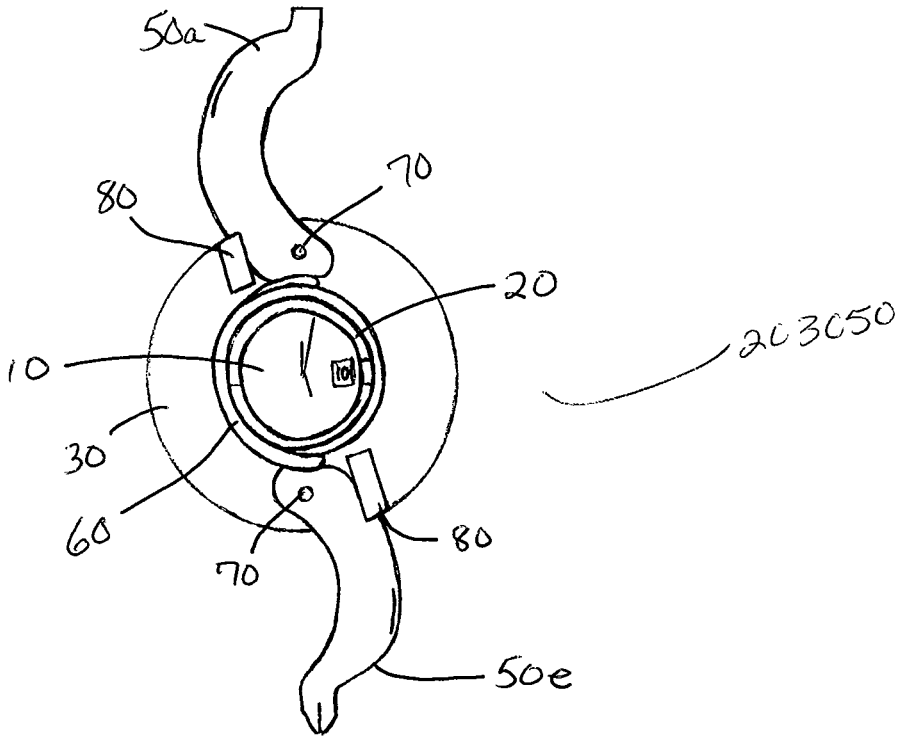

FIG. 19

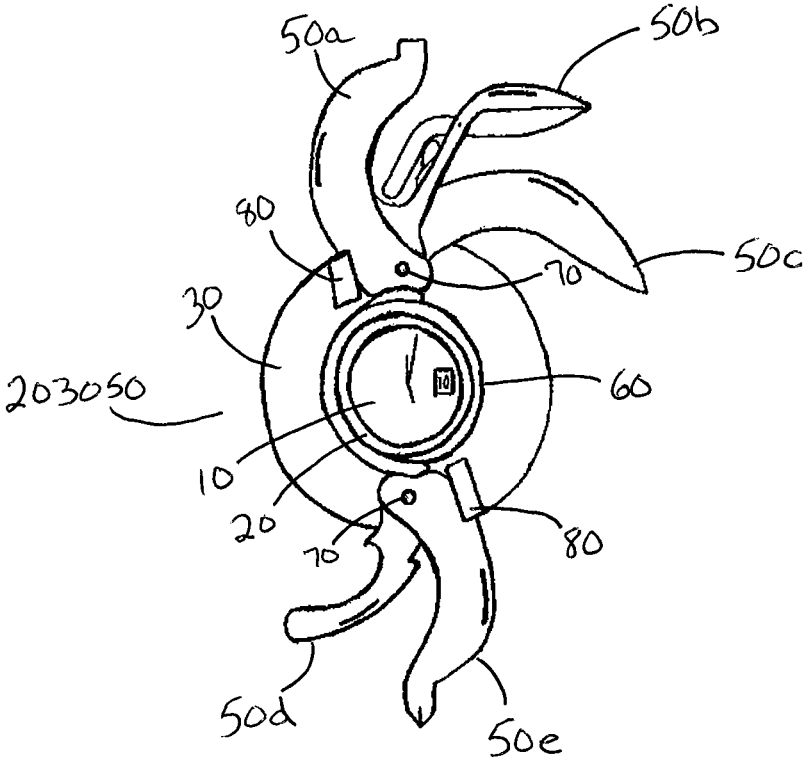

FIG. 19A

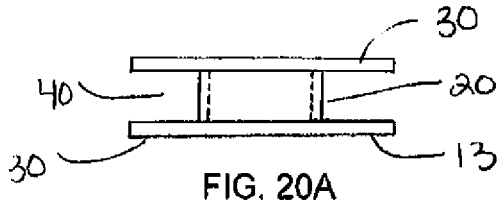

FIG. 20A

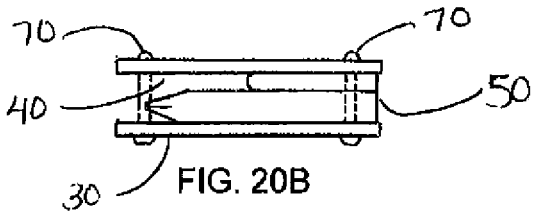

FIG. 20B

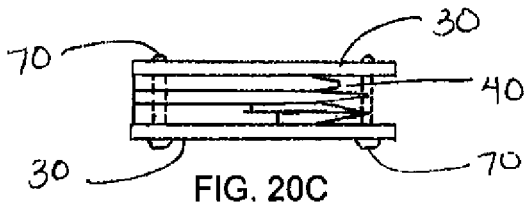

FIG. 20C

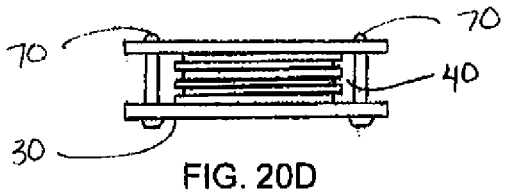

FIG. 20D

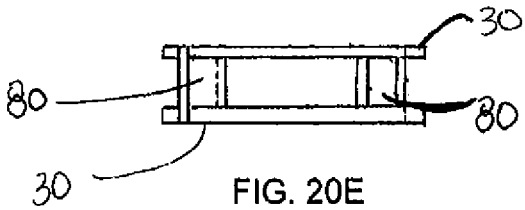

FIG. 20E

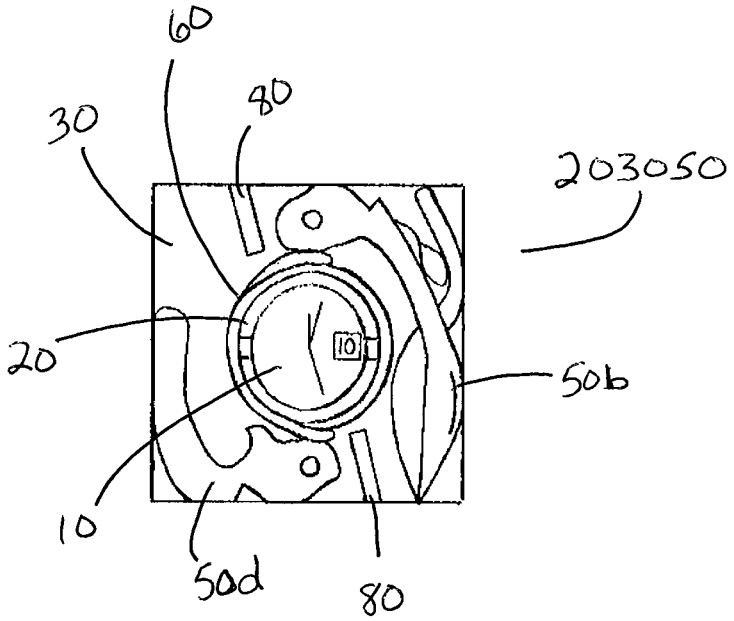

FIG. 21

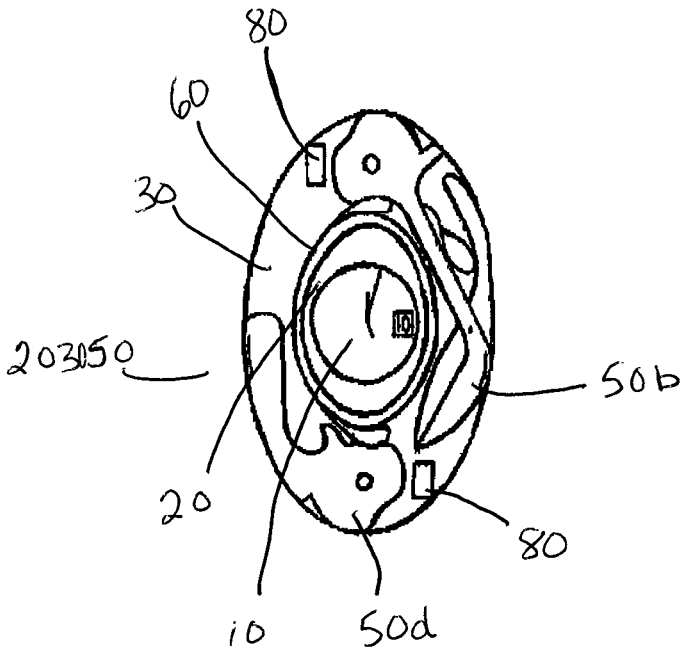

FIG. 22

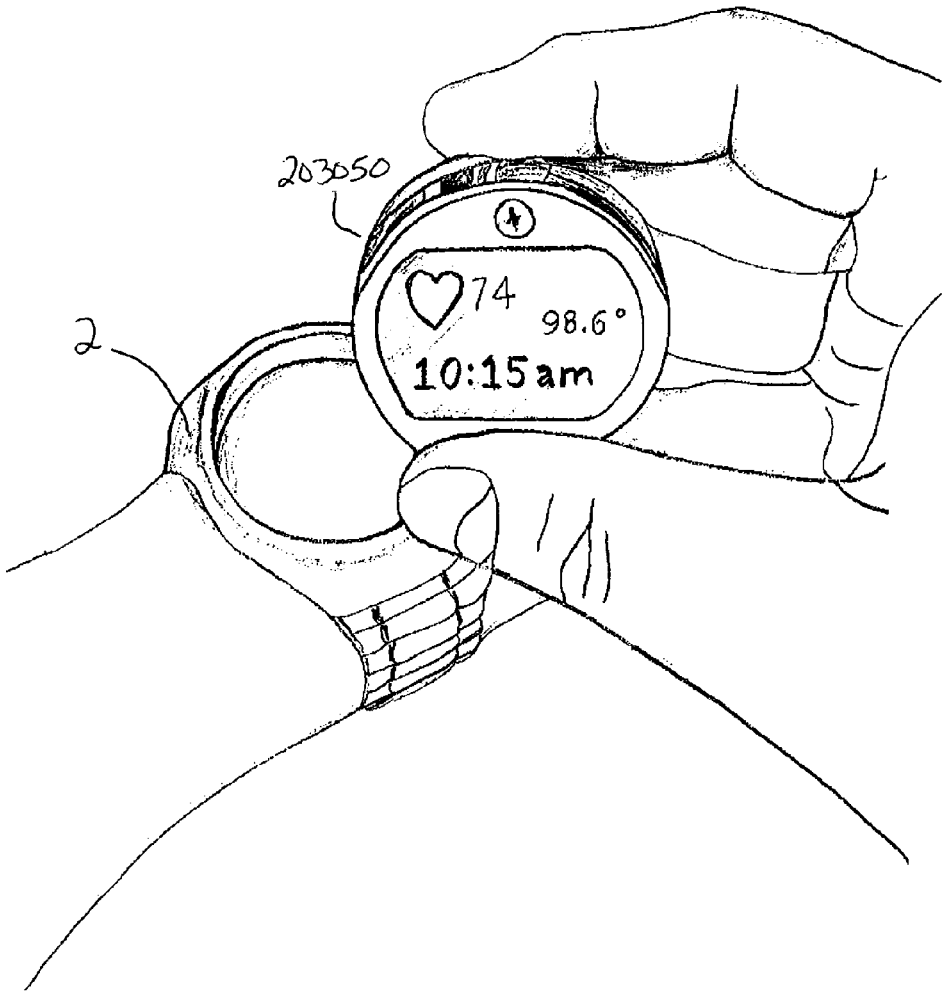

FIG. 23

FIG. 24

MULTI-PURPOSE TOOL WATCH HOUSING MULTIPLE TOOL MEMBERS TO BE MOVED FROM A STORED AND EXTENDED POSITION FOR USE

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to an integrated combination of a wristwatch with multi-purpose tool members to be moved from a stored position to an extended position for use. The wristwatch includes a watch for identifying time and several multi-purpose tools that may include but are not limited to any select combination of the following items: a knife, a pair of scissors, a variety of screwdrivers, and a bottle opener, among other items. The integrated combination of a wristwatch with multi-purpose tool members thereby allows an individual to carry multiple tool members on the individual's person for everyday use, if desired, in a convenient, simple, clean, safe, inconspicuous, and compact storage manner.

2. Description of the Related Art

The present invention is particularly applicable to the multi-purpose folding tool industry, and to one who typically wears a wristwatch or also carries a multi-purpose folding tool, and will be described further with particular reference thereto.

The continuing concern among those in the multi-purpose folding tool industry and among consumers who wear wristwatches and carry multi-purpose folding tools is that a conventional wristwatch only provides utility as a timepiece or ornamental bracelet and a multi-purpose folding tool is a heavily weighted and bulky accessory of a multitude of sizes and configurations. In addition, a multi-purpose tool is often carried separate and apart from an individual's physical person, such as in a carry bag or a pocket of an article of clothing, or the tool may also be placed as an attachment on the individual's belt buckle or strap. Thus, there is ever growing concern to look for an invention that incorporates a conventional wristwatch and multi-tool member survival kit in a compact and convenient form such that an individual may carry a compact survival kit as a worn wristwatch for everyday use, select activities, or unexpected tasks.

A quick survey of the prior art in this area reveals that it is replete with myriad and diverse wrist housings for tools and multi-purpose folding tools. The folding tools allow a user to carry several tools in a housed manner. See, for example, U.S. Pat. Nos. 7,447,118; 6,781,921; 5,160,134; 5,838,639; 6,098,497; and U.S. application Ser. No. 13/357,673.

Various types of watches or foldable tools are traditionally available in a variety of shapes, sizes, and configurations. It is known that watches typically have a dial or face for displaying time and a housing having a cavity or area formed behind the dial or face in order to house the mechanisms of the watch. Many previously available hand tools provide for use of a single hand to drive tool bits of several different sizes and configurations. Previously available survival tool kits or tool bit holders with accompanying bits have required more space to be held or carried by the individual, and so it is desired to utilize tool kits in a more compact folding tool. Most, if not all, of these folding tools are limited in their size and shape and do not provide for a clean, convenient, safe, inconspicuous, or compact storage of multi-member tools on the body of the individual carrying the tool.

In some instances, certain watch cases contain a separate compartment to hold or conceal objects such as money, tokens, reflective surfaces, scissors, pocket knives, and compasses, which are traditionally carried separately by an individual. As such, a wide variety of dimensions of compartments and devices have developed over the years to provide a solution that allows other objects to be carried together with a conventional watch. These traditional multi-purpose devices typically include single function or single purpose objects or, in any event, a very limited number thereof. Therefore, a conventional wristwatch does not have the capacity or functionality to handle more than a single or very limited number of functions or purposed tools.

None of these solutions have addressed or resolved the problems faced by an individual with an affinity for the outdoors. An outdoors person, who may participate in fishing, hunting, hiking, and the like, would typically have a need for a contained housing, storing compact or pocket folding multi-purpose tools. Such tools are often separate and apart from any other gear that the individual may have or may be wearing on the individual's body such as the individual's conventional wristwatch that the majority of individuals wear on a regular basis. Because tool members are a separately carried item, the individual is required to remember to carry along multi-member tools or a pocket folding survival kit in addition to the multitude of other items that may be needed and required on a trip, outing, or activity.

Remembering to carry the various multi-member tools or pocket folding survival kit for an outing can be quite cumbersome and also opens up the possibility that a vital survival tool for the outing may be forgotten, misplaced, or become separated from the individual while the outing is underway.

The goal of any pocket folding tool member is to promote the convenience of a multi-tool survival kit in a clean, convenient, safe, inconspicuous, compact, and aesthetically pleasing configuration that may be carried and used by an individual during the course of the individual's normal activities. Moreover, a further goal of these products is to facilitate the functionality of survival tool kits and tool members having movable configurations positioned in stored and extended positions for tool use while an individual is engaged in activities experienced in the regular course of daily life, outdoor activities, and other events.

Conventional folding tools and survival kits suffer from a number of drawbacks in addressing the problem of convenient storage, wearing, carrying and handling of an effect on an individual's body in a sizable and compact fashion. One such drawback is that conventional survival kits and folding tools generally contain a plurality of tool members, thus making the entirety of the folding tools and survival kit both bulky and cumbersome. Therefore, in such a fashion, the individual would generally pick up and carry this survival tool or kit only to take it along on the desired outdoor activity, and the individual would not carry the item for everyday living and use if desired. The individual would keep the survival tools in a separate bag or pocket compartment, as these items are not regularly worn or carried on the body of the individual. Thus, the bulky and cumbersome size of the tools or kit would prevent the outdoors person from keeping the tool or kit on the individual's person at all times and decreasing the convenience of having a tool for unexpected tasks, events in everyday living, or in the event that a conventional tool kit becomes separated from the individual.

Therefore, the use of conventional, multi-tool member folding tools is not conducive for situations requiring coverage for extended periods of time or if the outdoors person is limited in the number of contents being carried or handled by the individual. Thus, these traditional folding tools and survival kits do not alleviate the problems typically encountered with ordinary use of these items. Despite the existence of

many types of watches, foldable tools, and survival kits, individuals continue to experience inconvenience in remembering, carrying and transporting multi-member survival tools and kits.

Accordingly, a need exists for a new and improved multi-purpose tool watch having multiple tool members that may be moved from a stored position to an extended position for use. In addition, a need also exists for a multi-purpose tool watch that provides compact, convenient, clean, safe, inconspicuous, and easy storage in terms of allowing an individual to comfortably wear the watch on the individual's wrist and conveniently being able to access and use multiple tools upon necessity. It is a general object and desire of the present invention to provide such a multi-purpose tool watch having multiple tools and configurations so that the tools are stored and then can be extended for use. It is also the object of the present invention to enable multi-member tools to be easily remembered, carried, transported, and so that the tools remain attached to an individual's person while on an outdoor outing, during a select activity, encountering an unexpected task, or in everyday living. Such an apparatus provides versatility and addresses the shortcomings discussed earlier, and thus is highly desirable.

More specifically, there exists a need to combine such tools with another item that is regularly worn and easily transported on the body of the individual, not a tool that is carried separate and apart from the individual's person. Even further, there is a need for the arrangement of the apparatus to enable ease of use, convenience to carry, and flexibility to the individual. Further still, there is a need to provide multi-member tools in an aesthetically pleasing packaging for the individual end user. Such a packaging should be inconspicuous in appearance and require minimal effort and thought for use and transport by the individual end user. In addition, the object of the present invention is also to include previously available tool features but be able to provide them in a safer, and more comfortable manner, thereby providing more versatile ability of the tool members than previously available tools of comparable sizes.

SUMMARY OF THE INVENTION

Recognizing the need for the development of new and improved methods and products for watches integrated with multi-purpose folding tool members, the present invention is generally directed to the needs set forth above and overcoming the problems with and the disadvantages exhibited by traditional watches and folding tool members and survival kits.

The present invention relates to a multi-purpose tool watch comprising, (a) a wristband housing having a bottom surface with a center point, an outer edge and a sidewall that extends upwards from the bottom surface outer edge, the sidewall having an inner surface, (b) a watch body having a boundary edge and top and bottom surfaces, with the top surface having a watch face configured to visually communicate at any instant the time of day, and with the bottom surface having a center point, (c) a tubular member having inner and outer surfaces, and top and bottom ends, (d) a flange, which extends radially outward from an end of the tubular member, the flange having a top and bottom surface and an outer edge, (e) wherein the tubular member inner surface having a configuration adapted to allow the tubular member inner surface to be mounted proximate to the watch body boundary edge, (f) wherein the flange having a configuration adapted to allow the flange outer edge to interact with the sidewall inner surface of the wristband housing so as to intermittently lock and unlock the tubular member and flange to the wristband housing when the bottom end of the tubular member is adjacent the wristband housing bottom surface, (g) a plurality of tool members, each having a configuration that is adapted to allow the tool member to be moved from a stored to an extended position for use, and (h) wherein the tool member configurations further adapted to allow the stored positions of each of the tool members to be located, when the watch body bottom surface is adjacent the wristband housing bottom surface, between the tubular member outer surface and the sidewall of the wristband housing.

In other possible embodiments of the present invention: (i) a plurality of springs, each of which has a configuration adapted to allow the spring to wrap around the outer surface of the tubular member and to provide a resistive force that must be overcome by a multi-purpose tool watch user in moving each of the tool members from a stored to an extended position and vice versa, (j) a plurality of pivot mounting posts, each of which is attached to the flange and has a configuration adapted to allow each of the tool members to be pivotally mounted so as to rotate in a plane substantially parallel to the flange when moving from a stored to an extended position and vice versa, (k) means for preventing unintentional rotation of said plurality of tools, and (l) means for maintaining tool members positioned in said extended position for use.

In addition, the present invention can take the form of a method of fabricating a multi-purpose tool watch comprising the steps of: (a) providing a wristband housing having a bottom surface with a center point, an outer edge and a sidewall that extends upwards from the bottom surface outer edge, the sidewall having an inner surface, (b) providing a watch body having a boundary edge and top and bottom surfaces, with the top surface having a watch face configured to visually communicate at any instant the time of day, and with the bottom surface having a center point, (c) providing a tubular member having inner and outer surfaces, and top and bottom ends, (d) providing a flange, which extends radially outward from an end of the tubular member, the flange having a top and bottom surface and an outer edge, (e) wherein the tubular member inner surface having a configuration adapted to allow the tubular member inner surface to be mounted proximate to the watch body boundary edge, (f) wherein the flange having a configuration adapted to allow the flange outer edge to interact with the sidewall inner surface of said wristband housing so as to intermittently lock and unlock the tubular member and flange to the wristband housing when the bottom end of the tubular member is adjacent the wristband housing bottom surface, (g) utilizing a plurality of tool members, each having a configuration that is adapted to allow said tool member to be moved from a stored to an extended position for use, and (h) wherein the tool member configurations further adapted to allow the stored positions of each of the tool members to be located, when the watch body bottom surface is adjacent the wristband housing bottom surface, between the tubular member outer surface and the sidewall of the wristband housing.

Thus, there has been summarized above (rather broadly and understanding that there are other preferred embodiments which have not been summarized above) the present invention in order that the detailed description that follows may be better understood and appreciated.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool watch to be worn on a wrist of an individual.

FIG. **2** is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool watch being shown apart from the wrist of an individual.

FIG. **3** is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool watch being shown apart from the wrist of an individual and the individual beginning to remove the tool kit, including the watch body, tubular member, flange, and tools from the wristband housing.

FIG. **4** is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool watch being shown apart from the wristband housing and the individual having removed the tool kit and holding the tool kit with a tool member positioned and extended for use.

FIG. **4**A is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool watch being shown apart from the wrist of an individual and the individual having removed the tool kit, including the watch body, tubular member, flange, and tools from the wristband housing and tool members extended for use, including for example, a flat head screwdriver, scissors, knife, bottle opener, and Phillips head screw driver. This Figure also demonstrates one embodiment of a stand-alone tool kit used separately from the wristband housing, if so desired, while the wristband housing remains on the user's wrist.

FIG. **5** is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool kit being shown apart from the wrist of an individual and the individual having removed the watch body, tubular member, flange, and tools from the wristband housing and a tool member, a flat heard screwdriver extended for use and being used by the individual.

FIG. **6** is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool kit being shown apart from the wrist of an individual and the individual having removed the tool kit, including the watch body, tubular member, flange, and tools from the wristband housing and another tool member, scissors, extended for use and being used by the individual.

FIG. **7** is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool kit being shown apart from the wrist of an individual and the individual having removed the tool kit, including the watch body, tubular member, flange, and tools from the wristband housing and yet another tool member, a bottle opener, extended for use and being used by the individual.

FIG. **8** is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool kit with the watch body removed.

FIG. **8**A is a perspective, elevational view that illustrates a preferred embodiment of the present invention, the multi-purpose tool kit with the tubular member and watch body removed.

FIG. **8**B is a perspective, side view and top view that illustrate a preferred embodiment of the tubular member of the present invention.

FIG. **8**C is a perspective, side view that illustrates a preferred embodiment of the tubular member of the present invention.

FIG. **8**D is a perspective, side view that illustrates a preferred embodiment of the tubular member of the present invention.

FIG. **8**E is a perspective, top view that illustrates a preferred embodiment of the tubular member of the present invention.

FIG. **8**F is a perspective, top view that illustrates a preferred embodiment of the tubular member of the present invention with a plurality of springs, each of which has a configuration adapted to allow the spring to wrap around the outer surface of the tubular member.

FIG. **9**A is a perspective, top view of one preferred embodiment of the present invention with detailed dimensions, the multi-purpose tool watch being shown apart from the wrist of an individual.

FIG. **9**B is a perspective, top view of one embodiment of the present invention having time identification numerals and markings, the multi-purpose tool watch being shown apart from the wrist of an individual.

FIG. **10** is a perspective, top view of the wristband housing of the preferred embodiment of the present invention, being shown apart from the wrist of an individual.

FIG. **11** is a perspective, top view of a preferred embodiment of the present invention, the multi-purpose tool kit being shown apart from the wristband housing and with a selected tool, a flat head screwdriver, in the extended position for use by the individual.

FIG. **12** is a perspective, top view of a preferred embodiment of the present invention, the multi-purpose tool kit being shown apart from the wristband housing and with a selected tool, scissors, in the extended position for use by the individual.

FIG. **13** is a perspective, top view of a preferred embodiment of the present invention, the multi-purpose tool kit being shown apart from the wristband housing and with a selected tool, a knife, in the extended position for use by the individual.

FIG. **13**A is a perspective, elevational view that illustrates another possible embodiment of the present invention, the multi-purpose tool kit being shown apart from the wrist of an individual with a tool member, a knife, extended for use and being used by the individual, while the wristband housing remains on the wrist of the individual.

FIG. **14** is a perspective, top view of a preferred embodiment of the present invention, the multi-purpose tool kit being shown apart from the wristband housing and with a selected tool, a bottle opener, in the extended position for use by the individual.

FIG. **14**A is a perspective, side view of a preferred embodiment of the present and with a bottle opener tool member in the extended position for use on the cap of a bottle.

FIG. **15** is a perspective, top view of a preferred embodiment of the present invention, the multi-purpose tool kit being shown apart from the wristband housing and with a selected tool, a Phillips screwdriver, in the extended position for use by the individual.

FIG. **16** is a perspective, internal top view of a preferred embodiment of the present invention, the multi-purpose tool kit, including the watch body, tubular member, flange, tool stops, posts, springs, and a tool member, a knife, being shown apart from the wristband housing and with tool members in the stored position.

FIG. **17** is a perspective, internal top view of a preferred embodiment of the present invention, the multi-purpose tool kit, including the watch body, tubular member, flange, tool stops, posts, springs, and tool members being shown apart from the wristband housing and with tool members, scissors and a bottle opener, in the stored position.

FIG. **18** is a perspective, internal top view of a preferred embodiment of the present invention, the multi-purpose tool

kit, including the watch body, tubular member, flange, tool stops, posts, springs, and tool members being shown apart from the wristband housing and with tool members, a flat head screwdriver and Phillips screwdriver, in the stored position.

FIG. **19** is a perspective, internal top view of a preferred embodiment of the present invention, the multi-purpose tool kit, including the watch body, tubular member, flange, tools stops, posts, springs, and tool members being shown apart from the wristband housing and with selected tool members, a flat head screwdriver and Phillips screwdriver, in the extended position.

FIG. **19**A is a perspective, internal top view of a preferred embodiment of the present invention, the multi-purpose tool kit, including the watch body, tubular member, flange, tool stops, posts, springs, and tool members being shown apart from the wristband housing and with the tool members, a flat head screwdriver, scissors, a knife, a Phillips head screwdriver, and a bottle opener, in the extended, or partially extended position.

FIG. **20**A is a perspective, internal side view of a preferred embodiment of the present invention, the multi-purpose tool kit, flange and tubular member.

FIG. **20**B is a perspective, internal side view of a preferred embodiment of the present invention, the multi-purpose tool kit, flange, tool members, and posts being shown apart from the wristband housing and with tool members, bottle opener and Phillips screwdriver, in the stored position.

FIG. **20**C is a perspective, internal side view of a preferred embodiment of the present invention, the multi-purpose tool kit, flange, tool members, and posts being shown apart from the wristband housing and with tool members, flat head screwdriver, knife, and scissors, in the stored position.

FIG. **20**D is a perspective, internal side view of a preferred embodiment of the present invention, the multi-purpose tool kit, flange, tubular member, springs configured to wrap around the outer surface of the tubular member, and posts being shown apart from the wristband housing.

FIG. **20**E is a perspective, side view of a preferred embodiment of the present invention, the multi-purpose tool kit, flange, and stops being shown apart from the wristband housing.

FIG. **21** is a perspective, elevational view that illustrates another possible embodiment of the present invention, the multi-purpose tool kit being shown apart from the wrist of an individual.

FIG. **22** is a perspective, elevational view that illustrates another possible embodiment of the present invention, the multi-purpose tool kit being shown apart from the wrist of an individual.

FIG. **23** is a perspective, elevational view that illustrates another possible embodiment of the present invention, the multi-purpose tool kit being shown apart from the wrist of an individual and a digital fit-type watch face extending the full surface of the top flange.

FIG. **24** is a perspective, elevational view that illustrates another possible embodiment of the present invention, the multi-purpose tool kit being shown apart from the wrist of an individual and a smart watch face extending the full surface of the top flange with a tool member extended for use.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Before explaining at least one embodiment of the present invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the drawings. The invention is capable of other embodiments and of being practiced and carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting. For lexicon purposes, the terminology "user", "wearer", "individual", or "end user" are used interchangeably. In addition, references to a singular or plural element are used interchangeably and should not be regarded as limiting to the present invention. For example, use of the phrase and term "flange or flanges **30**", "plurality" of springs **60** and posts **70** and the term "springs **60**" and "posts **70**" are used interchangeably and may refer to both a singular and plurality of embodiment. Thus, these terms may refer to any embodiment for the intended purpose and should not be interpreted as limiting the claims. In addition, the terms "watch" or "wristwatch" refer to a conventional watch, digital watch, fit watch, smart watch, or any other type of similar watch-type embodiment in which the tool watch of the present invention may be embodied.

The present invention **1** is directed to an apparatus that provides an ordinary looking watch and includes a concealed, easily accessible, and compact set of multi-purpose tool members. The tool members provide elements that would be useful and critical to the survival of an individual in everyday living and outdoor activities. The tool members may include: a knife, screwdrivers (such as, for example, a Phillips-head screwdriver and flat-head screwdriver), scissors, and a bottle opener, among other items, such as, for example, a nail file, tweezers, wire strippers, and can opener. The tool members are stored in the multi-purpose watch **1** and the tools may be opened and extended for use when needed or desired. The tool members are securely held in the multi-purpose watch **1** when the tool members are in a stored position and not in use. This positioning of the tool members allows for convenient, clean, safe, inconspicuous, compact carrying and storage of the multi-purpose tools and attachment to a wristband housing that is connected to the wrist of the individual. This fashion of carrying the multi-purpose tool watch is similar to how an individual wears a conventional wristwatch.

Referring to FIG. **1**, there is illustrated a preferred embodiment of the present invention **1** in the form of a multi-purpose tool watch **1**. Typically, in everyday living or during outdoor activities, the user will wear the multi-purpose tool watch **1** on the individual's wrist. The most common way to use the multi-purpose tool watch **1** is for the individual to remove the watch tool kit **203050** from the wristband housing **2** that continues to be worn on the wrist of the individual. See also FIGS. **4**A, **13**A, **23** and **24**. The individual may also remove the entire multi-purpose tool watch **1**, including the wristband housing **2**, from his or her wrist first, and next then remove the tool kit **203050** from the wristband housing **2**. See FIGS. **1**-**4**.

FIGS. **1**-**3** show the multi-purpose tool watch **1** with the tool members **50** in a closed and stored position and configuration. The multi-purpose tool watch **1** comprises parts or elements that include: a wristband housing **2**, a watch body **10**, a tubular member **20**, a flange **30**, pair, or plurality of flanges **30**. The tool members **50** are stored in a closed position and located, when said watch body **10** bottom surface **13** is adjacent said wristband housing **2** bottom surface **3**, between said tubular member **20** outer surface **22** and said sidewall **6** of the wristband housing **2**.

For illustrative purposes, this location of the tools in a stored position may be interchangeably referred to herein as the donut-shaped area **40** or area **40**. Similarly, the phraseology and terminology "donut-shaped area" is for ease of

description for an embodiment of the present invention. This phrase should not be regarded as limiting, as many shapes could depict the form of the area **40** and a general area **40** is what is intended for the scope of this invention. In addition, the phraseology and terminology "flange" is for ease of reference and may refer to the singular, pair, or plurality of flanges **30**, and should not be interpreted as limiting.

A flange **30** extends radially outward from an end of the tubular member **20**. The tubular member **20** outer surface **22** and the sidewall **6** of the wristband housing **2** create a donut-shaped area **40** where a plurality of tool members **50** may be housed. In one embodiment, a pair, or plurality of flanges **30**, are spaced apart and situated atop each other in a substantially parallel configuration. The tubular member **20** is situated within the pair of flanges **30** and has a configuration that is substantially perpendicular to the pair of flanges **30**. In addition, the tool members **50** have a configuration that is adapted to allow them to move from a stored position to an extended position for use. The tool member **50** configurations are further adapted to allow the stored positions of each of said tool members to be located **40**, when said watch body **10** bottom surface **13** is adjacent said wristband housing **2** bottom surface **3**, between said tubular member **20** outer surface **22** and said sidewall **6** of the wristband housing **2**. See FIGS. **1** and **4**.

In another embodiment, the tool members **50**, when stored are positioned to fit in the area **40** located in their closest proximity to the tubular member **20** outer surface **22**.

The combination of the tubular member **20**, flanges **30**, area **40**, and tool members **50**, are referred to herein as the "tool kit", and this combination is identified with the numeral designation **203050** to indicate that the tool kit **203050** is a combination of several elements. Note, that in one possible embodiment, the tool kit **203050** also includes the watch body **10**. However, for ease of reference, we will simply identify the tool kit as **203050**.

The wristband housing **2** comprises a bottom surface **3**, with a center point **4**, an outer edge **5** and a sidewall **6** that extends upwards from the bottom surface outer edge **5**, the sidewall **6** having an inner surface **7**. See FIG. **10**. The wristband housing **2** has a configuration to be secured to and worn on the wrist of an individual via means similar to the means of securing and wearing a conventional wristwatch. As these traditional securing means are well known in the art, they will not be discussed in detail herein.

The watch body **10** comprises a boundary edge **11**, a top **12** surface, and a bottom **13** surface. The top surface **12** of the watch body **10** further comprises a watch face **14** that is configured to visually communicate at any instant the time of day. In addition, the watch body **10** bottom surface **13** comprises a center point **15**. In one embodiment, the watch body **10** bottom surface **13** may be affixed to the wristband housing **2** bottom surface **3** so that the wristband housing **2** center point **4** and the watch body **10** center point **15** both coincide. FIGS. **1-4**. In another preferred embodiment, the present invention features the watch body **10** as it may be affixed to the wristband housing **2** via removable or permanent means in connection with the tubular body **20** or flanges **30**. Another possible embodiment features the watch body **10** having a configuration that may be directly affixed to the wristband housing **2** bottom surface **3** via removable or permanent means.

The tubular member **20** has a further configuration adapted to allow the tubular member **20** to be mounted to the watch body **10** boundary edge **11**. In addition, the flange **30** interacts with the sidewall **6** of the wristband housing **2** so as to intermittently lock and unlock the tubular member **20** and flange **30** to the wristband housing **2**. Note, the phraseology and terminology "tubular member" is for ease of description for an embodiment of the present invention. This phrase should not be regarded as limiting as many shapes or forms depict the form of a substantially hollow member. In addition, the tubular member **20**, which may be of any desired shape or form, is preferred in a substantially circular form. The tubular member **20** made of any suitable material such as, for example, metal, stainless steel, wood, polymer, molded material or the like material. FIGS. **1-4**. These materials, like all of the materials listed herein, are listed as examples and should not be interpreted as being limiting to the materials used in making the invention. In one possible embodiment, the watch body **10** is permanently affixed to the tubular member **20**. In another possible embodiment, the tubular member **20** has a configuration to fit around the watch body **10** and substantially enclose the sides of the watch body **10**. See for example, FIG. **8**A. In another possible embodiment, the tubular member **20** may partially close around the watch body **10**. Yet, another possible embodiment, the tubular member **20** may be a solid form and the watch body may be an extension of the top flange **30**, such that the watch body **10** sits atop the top surface of the top flange **30**.

In order to use the concealed tool members **50**, the individual removes the tool kit **203050** from the wristband housing **2**. See FIGS. **1** and **4**. The wristband housing **2** may remain on the individual's wrist in the preferred fashion. Next, the individual selects the desired tool member **50** from the stored position inside the donut-shaped area **40** of the tool kit **203050**. The individual then configures the selected tool member **50** into an extended position for use. FIG. **4**A demonstrates the tool kit **203050** apart from the wristband housing **2** and displaying a variety of multi-purpose tool members **50**, **50***a-e*, in an extended, or partially extended, position. Generally, the individual selects one tool member **50** for use at a time. However, depending on the configuration of the tool members **50**, and the tool selected for use, additional tool members may also be extended at the same time.

The individual uses the tool kit **203050** as a handle to effectively use the selected tool member **50** and perform the desired task. See FIGS. **5-7**. When the individual has completed the task, the individual may return the selected tool member **50** to the stored, closed position by placing the tool member **50** inside area **40** of the tool kit **203050**. The individual may then secure the tool kit **203050** to the wristband housing **2** located on the individual's wrist in one fashion, and, therefore, returning the tool kit **203050** to its original multi-purpose tool watch **1** form. Thus, the individual is permitted to wear the tool kit **203050** on the wristband housing **2** on the wrist of the individual for conventional use and for the convenience of wearing an inconspicuous and compact set of multi-purpose tools in a general wristwatch fashion.

Moreover, the wristband housing **2** may be made of any suitable material such as metal, stainless steel, wood, polymer, plastic, molded material or the like material in order to achieve the desired function for use and comfort and to support and secure the tool kit **203050**, including tubular member **20**, flange **30**, and the tool members **50**. FIGS. **1-4**. These materials, like all of the materials listed herein, are listed as examples and should not be interpreted as being limiting to the materials used in making the invention.

The multi-purpose tool watch **1** also comprises a tubular member **20** that has an inner **21** surface, an outer **22** surface, and a top end **23** and a bottom **24** end, wherein the tubular member **20** inner surface **21** has a configuration adapted to allow the tubular member **20** inner surface **21** to be mounted proximate to the watch body **10** boundary edge **11**.

In addition, the multi-purpose tool watch **1** also comprises a flange **30**, which extends radially outward from an end of tubular member **20**. The flange **30** also has a top surface **31** and a bottom surface **32** along with an outer edge **33**. FIGS. **16-20**A-E.

In one embodiment, the multi-purpose tool watch **1** comprises a flange **30** or pair or plurality of flanges **30**, one of which extends radially outward from the top end **23** of the tubular member **20**, and the other of which extends radially outward from the bottom end **24** of the tubular member **20**. Each flange **30** also has a top surface **31** and a bottom surface **32** along with an outer edge **33**. FIGS. **16-20**A-E. The invention further includes a donut-shaped area **40** where the tool members **50** are stored in a closed position and located, when said watch body **10** bottom surface **13** is adjacent said wristband housing **2** bottom surface **3**, between said tubular member **20** outer surface **22** and said sidewall **6** of the wristband housing **2**.

The flange **30** that has a configuration adapted to allow the outer edge **33** of flange **30** to interact with the sidewall **6** inner surface **7** of the wristband housing **2** so as to intermittently lock and unlock the tubular member **20** and flange **30** to the wristband housing **2** when the bottom end **24** of the tubular member **20** is adjacent the wristband housing **2** bottom surface **3**. See FIGS. **1-4**. Thereby, the tool kit **203050** is secured to the wristband housing **2**.

The present invention also includes a plurality of tool members **50**, each having a configuration that is adapted to allow each tool member **50** to be moved from a stored position to an extended position for use. In addition, the tool member **50** configurations are further adapted to allow each tool member **50** in the stored position to be located, when said watch body **10** bottom surface **13** is adjacent said wristband housing **2** bottom surface **3**, between said tubular member **20** outer surface **22** and said sidewall **6** of the wristband housing **2**.

In a preferred embodiment, the tool kit **203050** comprises a plurality of springs **60**, each of which has a configuration adapted to allow the spring **60** to wrap around the outer surface **22** of the tubular member **20**. The springs **60** provide a resistive force that must be overcome the individual in moving one or more of said tool members **50** from a stored to an extended position and vice versa. See FIGS. **16-19**A.

The present invention **1** further comprises means for preventing unintentional rotation of said plurality of tools. In one embodiment, the present invention includes a tool stop **80**. See FIGS. **16-19**A. The tool stop **80** provide a surface such that when a tool member **50** is extended from a stored position to an open position, the tool stop **80** limits the extension of the tool member **50** and dictates when the open position is fully reached. The tool stop **80** seeks to prevent over extension of a tool member **50**, and restricts the unintentional rotation of a tool member **50**, and thus provides a tool member **50** stopping function.

In another preferred embodiment, the present invention **1** further comprises a means for maintaining tool members in an extended position for use. One embodiment involves the tool stop **80** and spring **60** in combination with the tool member **50** so that the tool member **50** is maintained in the extended position. See FIGS. **19** and **19**A.

FIGS. **2-4** show the multi-purpose tool watch **1** and an individual as he or she removes the tool kit **203050** from the stored location affixed to the wristband housing **2** that may remain attached to the individual's wrist. FIGS. **2-4** show a perspective, elevational view of the preferred embodiment of the present invention and further details that at least one flange **30** has a configuration adapted to allow the outer edge **33** of the flange **30** to interact with the inner surface **7** of the wristband housing **2** sidewall **6**. In doing so, the outer edge **33** of the flange **30** and inner surface of the wristband housing **2** intermittently lock and unlock. In one embodiment, the tool kit **203050** intermittently locks and unlocks the tubular member **20** and flange **30** to the wristband housing **2** when the bottom end **24** of the tubular member **20** is adjacent to the wristband housing **2** bottom surface **3**. In one embodiment, the tubular member **20** and flanges **30**, or tool kit **203050**, are affixed to the wristband housing **2** by means of threaded grooves, such that, in one embodiment, the flange **30** or tool kit **203050**, screw into the wristband housing **2** in order to be secured to the wristband housing **2**. Thus, a flange **30** may be locked and unlocked to the wristband housing **2**. It should be understood that the tubular member **20** and flange **30**, or tool kit **203050**, could otherwise have a configuration to be affixed to the wristband housing **2** and the multi-tool watch **1** could be provided with any number of suitable connecting, coupling, or attachment means without departing from the scope of the present invention. For example, the tubular member **20** and flange **30**, or tool kit **203050**, may be affixed to the wristband housing **2** by a connecting means of the releasable type, such as with a clamp, latch, or snap attachment. Other means may include magnets, or an interconnecting or insert-type of attachment. Moreover, in one embodiment, the tool kit **203050** is positioned in the wristband housing **2**, such that the watch body **10** bottom surface **13** having a center point **15** may be affixed to the wristband housing **2** bottom surface **2** so that the watch body **10** center point **15** coincides with the wristband housing center point **4**. It should be noted, that while the tool kit **203050** is affixed to the wristband housing **2**, the tool kit **203050** in another embodiment may also be used as a stand-alone tool kit as a compact, convenient, multi-tool kit, and carried as a separate personal item if so desired. The tool kit **203050** may also include a loop or attachment type feature to secure the stand-alone tool kit **203050** to an individual's belt loop or bag handle or clip.

FIG. **4** provides a perspective, elevational view of the multi-tool watch invention **1**, in which the tool kit **203050** has been removed from the wristband housing **2**. A selected tool member **50** has been moved from the stored position located in an area **40** between said tubular member **20** outer surface **22** and said sidewall **6** of the wristband housing **2**, when said watch body **10** bottom surface **13** is adjacent said wristband housing **2** bottom surface **3**. The tool members **50** may be extended to a position for use. A plurality of tool members **50** exist, each having a configuration adapted to allow the respective tool member **50** to be moved from a stored position to an extended position for use.

Moreover, FIG. **4**A shows the tool kit **203050** after it has been removed from the wristband housing **2**. In this embodiment, the wristband housing **2** remains on the wrist of the individual user. The tool kit **203050** in one possible embodiment features tool members **50** including not limited to a flat head screwdriver **50***a*, scissors **50***b*, a knife **50***c*, a bottle opener **50***d*, and a Phillips-head screwdriver **50***e*. See FIGS. **4**A, and **11-15**. In should be noted, that possible embodiments include one tool member **50** or a plurality of tool members **50** in various combinations. Moreover, the order and positioning of the tool members **50** is not limited to the ordered positioning as shown. The tool members **50** featured are illustrative of one possible embodiment of the invention.

The tubular member **20** is shown in more detail in FIGS. **8**A-**8**F. In this possible embodiment, the tubular member **20** is a substantially hollow, cylindrical form that partially surrounds or encircles the watch body **10** and provides for a semi-encasement of the watch body **10**. In addition, the tubular member **20** also provides support to the flange **30** proxi-

mate the external boundary edge of the watch body **10**. The tubular member **20** has an inner surface **21** and an outer surface **22**, as well as, a top end **23** and bottom end **24**. See also FIGS. **4**, **16-20**A-E. The tubular member **20** may be made of any suitable material, such as, for example, metal, aluminum, steel, wood, polymer, plastic, and molded material, or the like. These materials, like all of the materials listed herein, are listed as examples and should not be interpreted as being limiting to the materials used in making the invention.

FIGS. **4**, **8**, **8**A-**8**F, provide more details of the construction of the tubular member **20** used in the present invention. The tubular member **20** inner surface **21** has a configuration adapted to allow the tubular member **20** inner surface **21** to be mounted proximate to the watch body **10** boundary edge **11**. The preferred shape of the tubular member **20** is cylindrical, however, it should be understood by one skilled in the art that the tubular member **20** may be of any shape in order to achieve the desired purpose of the present invention and without departing from the scope of the present invention. In another embodiment, the tubular member **20** may be a permanent fixture affixed to the flange **30**, or may be removably mounted.

In another possible embodiment, the tubular member **20** may also be fashioned having a configuration as being, or being in effect, the external walls of the watch body **10**. For example, the tubular member **20** could be connected to the watch body **10** by a connecting means of the releasable type or of the permanent type without departing from the scope of the invention. The tubular member **20** could be easily adhered to adjoin the watch body **10** via a releasable mechanism, magnetized attachment or some other means of temporary affixing. In another possible embodiment, the tubular member **20** could be welded or affixed by other means or configured to be a continuous part or external wall of the watch body **10**, and, thus, the tubular member **20** would be affixed to the watch body **10** by way of permanent embodiment. In one possible embodiment, the tubular member **20** serves to provide support for a plurality of springs **60**. FIGS. **8**F, and **16-20**A-E.

In addition, FIGS. **4**, **8**, **8**A, and **8**B also demonstrate details showing a flange **30** or pair of flanges **30** where at least one flange **30** extends radially in the outward direction from the tubular member **20**. The tubular member **20** outer surface **22** and the sidewall **6** of the wristband housing **2** form a donut-shaped area **40** where the tool members **50** may be stored when not in use. In one embodiment, the area **40** may be donut-shaped and take on the form of the watch that is in a preferred circular, cylindrical shape. It should be understood that the donut-shaped area **40** may be of any area **40** shape and will fall within the scope of the invention. Use of the term "donut-shaped" is not meant to be limiting. In addition, in one possible embodiment of the present invention, the flange **30** top surface **31** features the visual markings or numerals used to communicate to an individual the time of day. See FIGS. **1**, **4**A, **8**, **23**, and **24**.

FIG. **8** shows the multi-purpose tool watch **1** separate and apart from the wristband housing **2**. In addition, FIG. **8** also shows one embodiment of the present invention where the watch body **10** is separate and apart from the tool kit **203050**. The watch body **10** in another embodiment may comprise a plurality of parts, including a removable top and bottom portion. Another possible embodiment of the watch body **10** comprises a removable top surface **12** and bottom surface **13** as well. In yet another embodiment, the bottom portion of the watch body **10** may house a battery used to provide power to the watch. The location of the battery provides for easy removal and replacement via the bottom portion of the watch body **10** or removal of the watch body **10** bottom surface **13**. In addition, the watch body **10**, as removable from the multi-purpose tool watch **1**, has means to allow for an individual to access the internal watch body **10** components. For example, a screw setting **16** or other means for attachment may be used to remove the bottom portion of the watch body **10**, or provide access to the winding features **17** of the watch in order to set the proper time. The individual may view the time while wearing the watch in the wristband housing **2** as a conventional watch or while the individual is using the multi-purpose tool watch **1**, or as a tool kit **203050**, and desires to reference the time.

Continuing with FIG. **8**, and also referencing FIGS. **11-20**A-E, these figures provide more details of construction and configuration of the tool members **50** used in the present invention **1**. The tool members **50** have configurations that are further adapted to allow the stored positions of each tool member **50** to be located substantially inside the donut-shaped area **40**. The ability of the multi-purpose tool watch **1** to store its tool members **50** in a compact configuration is what sets this invention apart from the prior art. The compact nature of this invention provides for a conventional and easily functional tool set to be carried on an individual's person via the wristband housing **2**. The above-referenced figures demonstrate one embodiment where the tool members **50** are configured in a substantially curved shape in order to be in the tool watch area **40**. One possible embodiment features the tool members **50** in a curved position to wrap around the inside of the tool kit **203050**. It should be appreciated that the substantially curved nature of the tool members **50** is one possible embodiment and other shapes may be utilized for tool members **50** to fit inside the area **40** or be attached on the tool kit **203050**. In one embodiment, the tool members **50**, when stored are positioned to be located in area **40** between said tubular member **20** outer surface **22** and said sidewall **6** of the wristband housing **2** when said watch body **10** bottom surface **13** is adjacent said wristband housing **2** bottom surface **3**.

FIGS. **5-7** show the individual using the multi-purpose tool watch tool kit **203050** with a tool member **50** having been moved from a stored position in the donut-shaped area **40** to an extended position for use. Each tool member **50** functions with respect to its particular intended purpose. As noted earlier, in one possible embodiment of the present invention, when a tool member is extended for use, a tool stop **80** limits the extension of the tool member **50** and dictates when the position is fully reached. See FIGS. **16-19**A.

FIGS. **9**A and **9**B details the dimensions of one embodiment of the present invention having a circular face and cylindrical body. The figure shows the top view of the multi-purpose tool watch **1**. In this particular embodiment, the diameter of the outer edge wall **5** of the wristband housing **2** is approximately 2 inches and the inner surface **7** diameter is approximately 1¾ inches. The diameter of the outer surface **22** of the tubular member **20** is approximately 13/16 inches and the diameter of the tubular member **20** inner surface **21** is approximately 11/16 inches. FIG. **10** further shows the wristband housing **2** separate from the tool kit **203050**. The wristband housing **2** features a bottom surface **3**, center point of the bottom surface **4**, sidewall **6**, sidewall inner surface **7**, and sidewall outer edge **5**.

As shown in FIGS. **4**A-**7**, and **11**, **12**, **13**, **13**A, **14**, **14**A, and **15**, one embodiment of the multi-purpose tool watch is shown where the tool kit **203050** comprises a flat head screw driver **50***a*, a knife **50***c*, scissors **50***b*, a Phillips-head screwdriver **50***e*, and a bottle opener **50***d*. Possible embodiments of the multi-purpose tool watch **1** include one tool member **50** or

any combination of tool members **50**. By way of example, the tool members **50** may be made of any suitable material such as metal, steel, aluminum, wood, plastic, polymer, molded material, or any like material in order to achieve the purpose of this invention. It should be understood that other materials could be used without departing from the scope of the present invention. Further, it should be appreciated by those skilled in the art that a variety of tools may be implemented in the present invention and that the tool members **50** identified herein are a representative sample of the available embodiment combinations. Other embodiments and tool members **50** not listed herein but that fall within the scope of the invention, should be interpreted to be included with this invention and the purpose this invention seeks to achieve.

FIGS. **16-19**A show top, internal views of the multi-purpose tool watch **1** and particularly the tool kit **203050**, in which can be seen a selected tool member **50** extended and positioned for use, with the remaining unselected tool members **50** in their stored positions. These figures also demonstrate one embodiment of the present invention that comprises a plurality of springs **60**, each of which has a configuration adapted to allow the spring **60** to wrap around the outer surface **22** of the tubular member **20**. See also FIG. **8**F. The springs **60** provide a resistive force that must be overcome by the respective tool member **50** by way of the individual applying force and moving one or more of the tool members **50** in one embodiment from a stored position in the area **40** to an extended position, and vice versa. Thus, in one embodiment, an individual may extend the tool member **50** from the donut-shaped area **40** of the tool kit **203050** and position the tool member **50** for use. See also FIGS. **11-15**, **19**, and **19**A. Another embodiment features a spring **60** having a top end and a bottom end so as to provide a resistive force **60** to the tool members **50**. In one possible embodiment, the tool member **50** will be positioned and extended fully for use via a tool stop **80** providing a surface to come into contact with the tool member **50** and limit the extension of the tool member **50** and prevent the unintentional rotation of the tool members **50**. Therefore, the tool stop **80** prevents the unintentional further rotation of a tool member **50** and stops the tool member **50** when it is positioned for use. See FIGS. **19-19**A. In one embodiment, the springs **60** are substantially circular in shape; however, a variety of spring shapes may be utilized so long as they achieve the purpose of allowing the tool members to be in a stored position and extended for use. In one possible embodiment, the springs **60** is a singular spring and in another embodiment the springs **60** feature a plurality of springs **60**. The multi-purpose tool watch **1** also has means for maintaining tool members **50** positioned in the extended position for use. One embodiment features the springs **60** and tool stop **80**. See FIGS. **19** and **19**A. In addition, other elements besides springs may also be used and incorporated into other embodiments of this invention and will be interpreted to fall within the scope of this invention. Thus, the present invention provides a useful, workable, inconspicuous, compact, and convenient way to carry a multi-purpose tool kit in everyday and outdoor activities in the same fashion of a traditional wristwatch but without the cumbersome nature of having to separately carry a bulky multi-purpose tool.

FIGS. **16-20**A-E depict a plurality of pivot mounting posts **70**, attached to one of the flanges **30**, and has a configuration adapted to allow one of the tool members **50** to be pivotally mounted so as to rotate in a plane substantially parallel to one of the flanges **30** when moving from a stored position to an extended position for use, and vice-versa. The individual is able to carry a compact tool kit **203050** having multiple tools **50** that are stored in a safe, convenient, and easy to use fashion so as to alleviate the bulky and cumbersome traditional tool kit. In one embodiment, the pivot posts **70** may be utilized to allow tool members **50** to swivel inward to be placed in a stored position in the area **40**, and to swivel outward to allow tool members **50** to be extended and positioned for use. The individual may select a particular tool member **50** for use by removing it from the stored position. In one embodiment, the individual provides a force to release the tool member **50** from its stored position. This pivot-post **70** allows certain tool members **50** to be stored in a compact configuration so as to provide a compact and convenient tool kit to the user to wear on his person as a conventional wristwatch. The pivot post **70** may be a singular pivot post **70** or a plurality of posts **70**. The term is interchangeable and refers to both embodiments, as it is not meant to be limiting.

Another possible embodiment of the present invention comprises a plurality of tool stops **80**. See FIGS. **16-19**, and **19**A. The tool stops **80** provide a surface such that when a tool member **50** is extended from a stored position to an open position, the tool stop **80** limits the extension of the tool member **50** and dictates when the open position is fully reached. The tool stop **80** seeks to prevent over extension of a tool member **50**, and restricts the unintentional rotation of a tool member **50**, and thus provides a tool member **50** stopping function.

Still further, the present invention **1** may also be utilized as a stand-alone tool kit **203050**, separate and apart from the wristband housing **2**. See FIGS. **4-7**, **11-15**. For example, the individual user may choose to not carry the tool kit **203050** on the wristband housing **2**. Instead, the individual user may carry only the toolkit **203050** if so desired. This type of stand-alone usage is often dependent on the preference and needs of the individual user.

There are many suitable materials from which the present invention can be fabricated and all are considered to come within the scope of the present invention. A major consideration in the selection of such a material is the requirement that it be able to sufficiently house a plurality of tool members **50** in a convenient, easy and compact storage body that may be worn on an individual's person.

For example, many types of materials such as stainless steel, aluminum, anodized aluminum, other metal materials, polymer material, plastic, rubber, molded material, wood, or the like material have been found to be suitable from which to fabricate the construction of the present invention **1**. It should be appreciated by those skilled in the art that any similar material may also be used to fabricate this multi-purpose tool watch **1**.

A major consideration of the present invention is in the configuration of tool members **50** such that each tool member **50** could be located inside the tool housing area **40**. In particular, experimentation was needed and conducted in connection with each tool member **50** in order to determine its substantial configuration and placement of the tool members **50** within the tool kit **203050** to fulfill the scope of the present invention. In one embodiment, the compact nature of the present invention and substantial placement of the tool members **50** in the area **40** of the present invention is one of the many distinguishing characteristics when compared to the prior art. It is particular to note that the bottle opener **50** required even further experimentation. It was further found that in particular sizing of the bottle opener tool member **50** was needed in order to be sufficient for its intended function. In one preferred embodiment, the bottle opener tool member **50** was constructed having a substantially curved arc configuration such that the curve of the arc was sized to fit in the donut-shaped area **40** while also having enough length to fit

the bottle top and to be close enough to the bottle neck to provide the force needed to open the vessel. Another embodiment utilizes a bottle opener having a substantially circular configuration that may fall within a substantially horizontal plane in alignment with the present invention **1**.

Other embodiments may also be configured to fall within the scope of the present invention **1**. The fabrication materials and configurations yield multi-purpose tool watch **1** that are easily and continuously used and will provide convenient and compact storage of the apparatus on the individual's person.

In one preferred embodiment, the multi-purpose tool watch **1** is fabricated such that it includes: a wristband housing **2** having a bottom surface **3** with a center point **4**, an outer edge **5** and a sidewall **6** that extends upwards from the bottom surface outer edge, and the sidewall having an inner surface **7**, a watch body **10** having a boundary edge **11** and top **12** and bottom **13** surfaces, with the top surface **12** having a watch face **14** configured to visually communicate at any instant the time of day, and with the bottom surface **13** having a center point **15**, a tubular member **20** having inner **21** and outer **22** surfaces, and top **23** and bottom **24** ends, a flange **30**, which extends radially outward from an end of the tubular member, the flange **30** having a top **31** and bottom **32** surface and an outer edge **33**, wherein the tubular member **20** inner surface **21** having a configuration adapted to allow the tubular member **20** inner surface **21** to be mounted proximate to the watch body **10** boundary edge **11**, wherein the flange **30** having a configuration adapted to allow the flange **30** outer edge **33** to interact with the sidewall inner surface **7** of the wristband housing **2** so as to intermittently lock and unlock the tubular member **20** and flange **30** to the wristband housing **2** when the bottom end **24** of the tubular member **20** is adjacent the wristband housing **2** bottom surface **3**, a plurality of tool members **50**, each having a configuration that is adapted to allow the tool member **50** to be moved from a stored to an extended position for use, and wherein the tool member **50** configurations further adapted to allow the stored positions of each of the tool members **50** to be located, when said watch body **10** bottom surface **13** is adjacent said wristband housing **2** bottom surface **3**, between said tubular member **20** outer surface **22** and said sidewall **6** of the wristband housing **2**.

In another preferred embodiment, the shape of the multi-purpose tool watch **1** was constructed in a substantially circular shaped fashion. Yet other embodiments feature a substantially rectangular shaped or substantially oval shaped watch **1**. Other embodiments feature a tool kit **203050** of substantially circular, rectangular, and oval shaped configurations. See FIGS. **21** and **22**. It should be understood, however, that the shape of the multi-purpose tool watch **1** and the tool kit **203050** may be of many shapes, sizes, lengths, and widths without departing from the scope of the present invention.

Another preferred embodiment of the present invention **1** is a multi-purpose tool watch **1** that comprises a plurality of springs **60**, each of which has a configuration adapted to allow the spring **60** to wrap around the outer surface **22** of the tubular member **20** and to provide a resistive force that must be overcome by an individual in moving one or more of said tool members **50** from a stored to an extended position and vice versa.

Yet another embodiment of the present invention **1** is a multi-purpose tool watch **1** that further comprises a plurality of pivot mounting posts **70**, which is attached to a flange **30** and has a configuration adapted to allow one or more of said tool members **50** to be pivotally mounted so as to rotate in a plane substantially parallel to said flange **30** when moving from a stored to an extended position and vice versa.

In addition, another embodiment of the present invention **1** is a multi-purpose tool watch **1** that comprises a plurality of tool members **50**. One embodiment is a multi-purpose tool watch **1** that comprises a plurality of tool members **50** that includes a knife **50***c* and a screwdriver **50***a*, **50***e*. Another embodiment of the present invention **1** is a multi-purpose tool watch **1** that comprises a plurality of tool members **50** that includes a flat-head screwdriver **50***a*, a pair of scissors **50***b*, a bottle opener **50***d*, and a Phillips-head screwdriver **50***e*. In addition, another embodiment of the present invention **1** includes a multi-purpose tool watch **1** that comprises a plurality of tool members **50**. As described earlier, these tool members **50** are listed by way of example, and should not be construed to be limiting to the construction of the present invention **1**. Any combination of tool members **50***a-e* may be combined to form the tool kit **203050**. Additional tool members **50** not listed herein but within the scope of this invention may also be included. Moreover, while the figures herein represent one possible embodiment of the order and positioning of the specific tool members **50***a-e*, the tool members **50** may be ordered and positioned in a variety of combinations, including those not pictured herein.

A preferred embodiment of the present invention is a multi-purpose tool watch **1** that further comprises means for preventing unintentional rotation of said plurality of tools **50**. Another embodiment is a multi-purpose tool watch **1** that further comprises means for maintaining tool members **50** positioned in said extended position for use.

In addition, FIGS. **1-4** show other embodiments of the present invention and detail the present invention having a substantially circular shape, while FIGS. **21** and **24** show the invention as having a substantially rectangular or square shape. Likewise, FIG. **22** shows one embodiment of the present invention as having a substantially oval shape. Still further, another possible embodiment is depicted in FIG. **23**, showing the invention as having a digital watch display face, or incorporated as part of a fit-type of watch. Moreover, in other possible embodiments, the watch face may extend beyond the watch body and time keeping markings may be placed on the top surface of the top flange **30** as seen in FIG. **1** and FIG. **23**. In addition, FIG. **24** also shows another possible embodiment of the present invention that may take the form of a smart watch. It should be understood that although the preferred invention comprises a multi-purpose tool watch **1** having a substantially circular or cylindrical shape, by way of example, this shape should not be construed as limiting. A multitude of shapes may be utilized so long as they coincide the scope of the present invention.

The present invention further encompasses a method of fabricating a multi-purpose tool watch **1** that includes the steps of: (a) providing a wristband housing **2** having a bottom surface **3** with a center point **4**, an outer edge **5** and a sidewall **6** that extends upwards from said bottom surface **3** outer edge **5**, said sidewall **6** having an inner surface **7**, (b) providing a watch body **10** having a boundary edge **11** and top **12** and bottom **13** surfaces, with said top surface **12** having a watch face **14** configured to visually communicate at any instant the time of day, and with said bottom surface **13** having a center point **15**, (c) providing a tubular member **20** having inner **21** and outer **22** surfaces, and top **23** and bottom **24** ends, (d) providing a flange **30**, which extends radially outward from an end of said tubular member, said flange having a top **31** and bottom **32** surface and an outer edge **33**, wherein said tubular member **20** inner surface **21** having a configuration adapted to allow said tubular member **20** inner surface **21** to be mounted proximate to said watch body **10** boundary edge **11**, wherein said flange **30** having a configuration adapted to allow said

flange **30** outer edge **33** to interact with said sidewall inner surface **7** of said wristband housing **2** so as to intermittently lock and unlock said tubular member **20** and flange **30** to said wristband housing **2** when the bottom end **24** of said tubular member **20** is adjacent said wristband housing **2** bottom surface **3**, (e) providing a plurality of tool members **50**, each having a configuration that is adapted to allow said tool member **50** to be moved from a stored to an extended position for use, and wherein said tool member **50** configurations further adapted to allow the stored positions of each of said tool members **50** to be located, when said watch body **10** bottom surface **13** is adjacent said wristband housing **2** bottom surface **3**, between said tubular member **20** outer surface **22** and said sidewall **6** of the wristband housing **2**.

Experimentation was conducted to determine the optimal size and positioning of the watch body **10**, tubular member **20**, flanges **30**, donut-shaped area **40**, and tool members **50**. These actions provided for an adequate configuration and functionality in order to create a compact and convenient multi-purpose tool watch **1** where a plurality of tool members **50** are stored and contained, in addition to also being able to be extended and positioned for use.

Advantages of the present invention **1** include the convenience of a multi-tool survival kit in a compact and aesthetically pleasing configuration that may be carried and used by an individual during the course of the individual's normal activities, outdoor excursions, or for unexpected tasks. The individual would wear the multi-purpose tool watch on the individual's person as opposed to carrying a separate tool kit that is often bulky and cumbersome and carried as a separate personal effect. The present invention provides for easy storage in terms of allowing the individual to comfortably wear the watch on the individual's wrist and conveniently access and use multiple tools upon necessity. In addition, the present invention has the advantage of housing multiple tools in an inconspicuous manner and requires minimal effort and thought for use and transportation by the individual.

Furthermore, the proposed multi-purpose tool watch is designed so as to be easily used and manufactured using conventional forms of manufacturing and conventional materials so as to provide a multi-purpose tool watch that will be economically feasible, long lasting for an item of its nature, and relatively trouble-free in operation.

The foregoing is considered as illustrative only of the principles of the present invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction, operation, and utilization shown and described herein. Accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention that is illustratively set forth in the following representative claims to the present invention.

I claim:

1. A multi-purpose tool watch comprising:

a wristband housing having a bottom surface with a center point, an outer edge and a sidewall that extends upwards from said bottom surface outer edge, said sidewall having an inner surface, and wherein said bottom surface and sidewall inner surface define the boundaries of a cavity on the front of said wristband housing,

a watch body having a boundary edge and top and bottom surfaces, with said top surface having a watch face configured to visually communicate at any instant the time of day, and with said bottom surface having a center point,

a tubular member having inner and outer surfaces, and top and bottom ends,

a flange, which extends radially outward from an end of said tubular member, said flange having a top and bottom surface and an outer edge,

wherein said tubular member inner surface having a configuration adapted to allow said tubular member inner surface to be mounted proximate to said watch body boundary edge,

wherein said flange having a configuration adapted to allow said flange outer edge to interact with said sidewall inner surface of said wristband housing so as to intermittently lock and unlock said tubular member and flange to said wristband housing when said bottom end of said tubular member is adjacent said wristband housing bottom surface,

a plurality of tool members, each having a configuration that is adapted to allow said tool member to be moved from a stored to an extended position for use, and

wherein said tool member configurations further adapted to allow the stored positions of each of said tool members to be located proximate said tubular member outer surface and beneath said flange bottom surface in a manner so as to allow said tubular member with said plurality of tool members in said stored positions to be located and stored completely within the boundaries of said cavity.

2. The multi-purpose tool watch as recited in claim **1**, further comprising a plurality of springs, each of which has a configuration adapted to allow said spring to wrap around the outer surface of said tubular member and to provide a resistive force that must be overcome by a multi-purpose tool watch user in moving each of said tool members from a stored to an extended position and vice versa.

3. The multi-purpose tool watch as recited in claim **2**, further comprising a plurality of pivot mounting posts, each of which is attached to said flange and has a configuration adapted to allow each of said tool members to be pivotally mounted so as to rotate in a plane substantially parallel to said flange when moving from a stored to an extended position and vice versa.

4. The multi-purpose tool watch as recited in claim **3**, further comprising means for preventing unintentional rotation of said plurality of tools.

5. The multi-purpose tool watch as recited in claim **2**, further comprising means for preventing unintentional rotation of said plurality of tools.

6. The multi-purpose tool watch as recited in claim **1**, further comprising a plurality of pivot mounting posts, each of which is attached to said flange and has a configuration adapted to allow each of said tool members to be pivotally mounted so as to rotate in a plane substantially parallel to said flange when moving from a stored to an extended position and vice versa.

7. The multi-purpose tool watch as recited in claim **6**, further comprising means for preventing unintentional rotation of said plurality of tools.

8. The multi-purpose tool watch as recited in claim **1**, further comprising means for preventing unintentional rotation of said plurality of tools.

9. The multi-purpose tool watch as recited in claim **8**, further comprising means for maintaining tool members positioned in said extended position for use.

10. The multi-purpose tool watch as recited in claim **1**, further comprising means for maintaining tool members positioned in said extended position for use.

11. A method of fabricating a multi-purpose tool watch comprising the steps of:

(a) providing a wristband housing having a bottom surface with a center point, an outer edge and a sidewall that extends upwards from said bottom surface outer edge, said sidewall having an inner surface, and wherein said bottom surface and sidewall inner surface define the boundaries of a cavity on the front of said wristband housing,

(b) providing a watch body having a boundary edge and top and bottom surfaces, with said top surface having a watch face configured to visually communicate at any instant the time of day, and with said bottom surface having a center point,

(c) providing a tubular member having inner and outer surfaces, and top and bottom ends,

(d) providing a flange, which extends radially outward from an end of said tubular member, said flange having a top and bottom surface and an outer edge,

wherein said tubular member inner surface having a configuration adapted to allow said tubular member inner surface to be mounted proximate to said watch body boundary edge,

wherein said flange having a configuration adapted to allow said flange outer edge to interact with said sidewall inner surface of said wristband housing so as to intermittently lock and unlock said tubular member and flange to said wristband housing when said bottom end of said tubular member is adjacent said wristband housing bottom surface,

(e) providing a plurality of tool members, each having a configuration that is adapted to allow said tool member to be moved from a stored to an extended position for use, and

wherein said tool member configurations further adapted to allow the stored positions of each of said tool members to be located proximate said tubular member outer surface and beneath said flange bottom surface in a manner so as to allow said tubular member with said plurality of tool members in said stored positions to be located and stored completely within the boundaries of said cavity.

12. The method of fabricating a multi-purpose tool watch as recited in claim **11**, further comprising the steps of providing a plurality of springs, each of which has a configuration adapted to allow said spring to wrap around the outer surface of said tubular member and to provide a resistive force that must be overcome by a multi-purpose tool watch user in moving each of said tool members from a stored to an extended position and vice versa.

13. The method of fabricating a multi-purpose tool watch as recited in claim **12**, further comprising the steps of providing a plurality of pivot mounting posts, each of which is attached to said flange and has a configuration adapted to allow each of said tool members to be pivotally mounted so as to rotate in a plane substantially parallel to said flange when moving from a stored to an extended position and vice versa.

14. The method of fabricating a multi-purpose tool watch as recited in claim **13**, further comprising means for preventing unintentional rotation of said plurality of tools.

15. The method of fabricating a multi-purpose tool watch as recited in claim **12**, further comprising means for preventing unintentional rotation of said plurality of tools.

16. The method of fabricating a multi-purpose tool watch as recited in claim **11**, further comprising the steps of providing a plurality of pivot mounting posts, each of which is attached to said flange and has a configuration adapted to allow each of said tool members to be pivotally mounted so as to rotate in a plane substantially parallel to said flange when moving from a stored to an extended position and vice versa.

17. The method of fabricating a multi-purpose tool watch as recited in claim **16**, further comprising means for preventing unintentional rotation of said plurality of tools.

18. The method of fabricating a multi-purpose tool watch as recited in claim **11**, further comprising means for preventing unintentional rotation of said plurality of tools.

19. The method of fabricating a multi-purpose tool watch as recited in claim **18**, further comprising means for maintaining tool members positioned in said extended position for use.

20. The method of fabricating a multi-purpose tool watch as recited in claim **11**, further comprising means for maintaining tool members positioned in said extended position for use.

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